

*W.H. Parsons 1952*



**SERVICE AT COST**

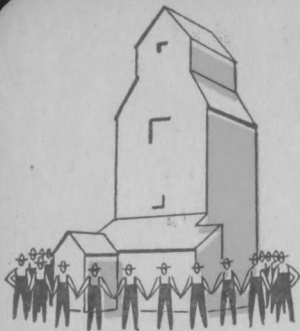
Compliments of  
**MANITOBA POOL ELEVATORS**  
**WHEAT POOL BUILDING**

**371 MAIN ST.**

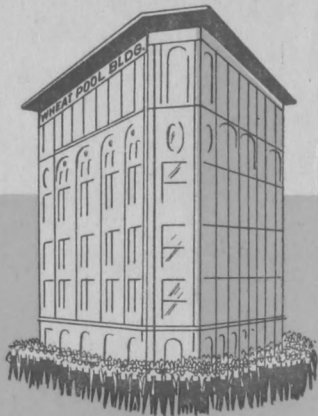
**WINNIPEG, MANITOBA**

# Organization

ACROSS THE NATION



**32,000 FARMERS  
IN MANITOBA OWN AND  
OPERATE MANITOBA  
POOL ELEVATORS**



**POOL ELEVATORS IS  
PART OF A NATIONAL  
FARM FAMILY IN THE  
CANADIAN FEDERATION  
OF AGRICULTURE**



**ORGANIZED FARMERS  
OF THE WORLD MAKE UP  
INTERNATIONAL FEDERATION  
OF AGRICULTURAL PRODUCERS**

# WORKING TOGETHER

## PAYS OFF . . . . .

This has been the experience of Pool farmers in Manitoba for over a quarter century. The need to co-operate was born in a day when the farmer was the victim of exploitation. Singly he could do little to improve his lot; joining hands with his neighbors, however, he discovered his strength and went on to establish his own grain-handling facilities.

Successful in this field, Pool members learned to work together in other ways. Through the national farm federation, their voice is now heard and heeded in provincial and federal legislatures. Their views can be channelled from the local association up to their world organization, the International Federation of Agricultural Producers — and ultimately to the United Nations.

In these ways Pool members have proved that agriculture is renewed, not from the top, but from the bottom — from those local associations which control the entire Pool structure and formulate its policies.

No one can represent the farmer better than he himself. It is little wonder therefore, that he has come to distrust the appeal to his loyalty by non-farm agencies and self-appointed champions of agriculture. Through the years the Pool farmer has demonstrated that, in good times and bad, his faith and patronage are with his democratically owned and operated organization.

Working together has richly paid off!

W. J. PARKER,

*President.*

# DESCRIPTION OF FIELD CROPS RECOMMENDED FOR MANITOBA

---

## SPRING WHEATS

**NEW IMPROVED REDMAN**—Strain CT-169 foundation stock replaces the original Redman CT-154. It is superior to the older strain in kernel type and weight per bushel, resulting in a more uniform sample. Supplies of seed from this improved stock will be available in 1952.

**REGENT**—This variety was produced at the Dominion Laboratory of Cereal Breeding, Winnipeg, from a cross H-44-24 X Reward, made in 1926 and licensed for sale in Canada in 1939. Compared with Thatcher, it is one day earlier in maturing; has slightly stronger straw of equal length, higher bushel weight and better kernel size and color. It is moderately resistant to loose smut, leaf rust, root rot and black chaff and resistant to bunt.

In milling quality, it is equal to Marquis. Yield tests taken over a number of years in Manitoba have shown Regent is slightly higher than Thatcher in most areas.

**THATCHER**—This variety originated from a cross made in 1921 at the University of Minnesota between (Marquis X Iumillo) and (Marquis X Kanred). It was first licensed for sale in Manitoba in 1936. Thatcher is resistant to loose smut and black chaff; moderately resistant to root rot but susceptible to leaf rust and covered smut.

In milling quality it is equal to Marquis though the kernels tend to bleach badly when weathered. It has a short, strong straw, is early maturing and is highly resistant to shattering.



**SAUNDERS** — This new variety of spring wheat was produced at Ottawa from a cross between Thatcher X [44.7 (Hope X Reward) ]. Its chief advantage is that this variety matures about two days earlier than all other varieties except Garnet. It is, therefore, recommended for the more northerly areas. In Alberta yield tests for four years it has outyielded Marquis and Red Bobs and is equal to Thatcher. The kernel character resembles Marquis and the milling quality is as high as that variety.

It is highly resistant to stem rust and shows more resistance to leaf rust than Thatcher, but not quite as much as Regent. It has more resistance to bunt than Thatcher.

**RESCUE**—A solid stemmed hard red spring wheat originating at the Dominion Experimental Station, Swift Current, Saskatchewan. It is resistant to sawfly and to stem rust but not to leaf rust. It has performed well in the sawfly areas of Saskatchewan; but under Manitoba conditions it produces weak straw and low yields and is therefore not recommended for this province.

It is of poor milling quality, not grading above No. 3 Northern. Rescue was licensed for sale in Canada in 1946.

**LEE**—A new American variety, quite resistant to both leaf and stem rust. It is, however, subject to bunt smut and loose smut. It is equal to Redman in baking quality and in Manitoba gives very satisfactory yields.

## **DURUMS**

**CARLETON**—This variety was developed at the North Dakota Experimental Station by crossing Vernal X Mindum and then back-crossing selected hybrids with Mindum. It was first distributed to Manitoba farmers in 1945.

Carleton is resistant to stem rust, moderately resistant to leaf rust, susceptible to bunt and moderately susceptible to root rot.

Its chief advantage over Mindum is its greater strength of straw. It is somewhat later maturing but of equal quality to Mindum.

**STEWART**—Developed at the North Dakota Experimental Station and selected in 1943 from a cross between Mindum X Vernal which was then back-crossed with Mindum. It was first introduced into Manitoba in 1946. Compared to Mindum, it has slightly stronger straw of equal length but not as strong as Carleton. It is slightly later in maturity than Mindum but of equal quality and higher yield.

It is resistant to stem rust and leaf rust, moderately susceptible to root rot and susceptible to bunt. Stewart is now licensed for sale in Canada.

**STEWART 221**—A new selection of Stewart with definitely higher yielding capacity.

(NOTE: All Durums proved more susceptible to Race 15B of stem rust in 1950.)

## **BARLEY**

### **MALTING VARIETIES**

**O.A.C. 21**—Produced at the Ontario Agricultural College from a selection of Manchuria and released in 1910. Since that time it has been the standard for malting purposes. O.A.C. 21 is a six rowed, rough awned, medium early variety with straw of medium length and strength. It is quite subject to shattering and is susceptible to rust.

**MONTCALM**—Developed at Macdonald College, Quebec, and licensed for sale in Canada in 1946, Montcalm is from a cross between Michigan X (common six rowed X Mand-

scheuri). It is a six rowed smooth awned variety equal in malting quality to O.A.C. 21 and has slightly higher yielding capacity. Due to a more erect type of head, it is less subject to shattering. It has about the same strength of straw and about the same degree of disease resistance as O.A.C. 21.

## FEED VARIETIES

**PLUSH**—Produced at the Dominion Experimental Farm, Brandon, from a cross Lion X Bearer and released in 1938. It is a smooth awned, six rowed medium late type which has yielded well in Manitoba. It has medium strong straw of good length, but is susceptible to stem rust, leaf rust, loose and covered smut.

**SANALTA**—Produced at the University of Alberta from a cross (Smooth-Awn X Duck-bill) and released in 1940. It is a two rowed, smooth awned variety having a good strength of straw which makes it suitable for early sowing on summer fallow or on heavy land.

Sanalta is a high yielding barley, having large plump kernels of good feeding value. It is susceptible to both rust and smut.

**TITAN**—Produced at University of Alberta from a cross of Trebi and Glabron and released in 1943. It has strong straw and is considered an excellent combine barley. It is quite smut resistant, but susceptible to rusts. The awns are very persistent and will not break off unless threshed when quite dry. Titan gives quite high yield on black soils, but does not yield so well on the wooded areas where grey soils prevail.

**VANTAGE**—Developed at the Dominion Experimental Farm, Brandon, from a selection of the cross (Newal X Peatland) X Plush and

licensed for sale in 1947. Vantage is a six row semi-smooth awned barley being very similar to Plush in general characteristics. It is slightly stronger in the straw and about one inch shorter than Plush; is resistant to stem rust but susceptible to loose smut. Tests to date have shown it as outyielding Plush in most areas of Manitoba.

## OATS

**FORTUNE**—Developed at the University of Saskatchewan. In Manitoba this variety has given results very similar to Vanguard.

**VANGUARD** — Developed at the Dominion Laboratory of Cereal Breeding, Winnipeg, from a cross Hajira X Banner and distributed in 1936. It has a kernel of medium size and thin hull but low bushel weight. The straw has good strength and matures medium early. It is moderately resistant to stem rust and halo blight, but susceptible to crown rust and loose and covered smuts.

**AJAX**—This variety is from a Victory X Hajira cross, made at the Dominion Laboratory of Cereal Breeding, Winnipeg, and distributed in 1943. Ajax has good kernel size, thin hull, straw strength and length. It is slightly earlier maturing than Vanguard, is moderately resistant to stem rust, resistant to halo blight, but susceptible to crown rust and smut.

**EXETER**—Produced at the Dominion Laboratory of Cereal Breeding, Winnipeg, from a cross Victory X Rusota and first distributed in 1944. This variety has large kernels with medium hull, high yielding ability, slightly weak straw and is medium late maturing. It is moderately resistant to stem rust, susceptible to crown rust and smut but resistant to halo blight.

## FLAX

**REDWOOD**—This variety was developed at the University of Minnesota from a cross CI-890 X Redson. The variety was licensed for sale in Canada in 1951. It is highly immune to present types of rust and slightly better than Rocket in resistance to pasmo.

At Morden, Winnipeg, and Brandon, Redwood has given a high yield per acre but is about one day later in ripening than Rocket.

**SHEYENNE** — A new early variety introduced from the United States. Yields about equal to Red Wing. High quality, and resistant to rust. Moderately resistant to pasmo.

**REDWING** — Is from a selection made at Minnesota Experimental Station and introduced into Canada in 1932. It is a medium yielding variety with tall straw. Because of its earlier maturity, it is recommended for the northern areas. Redwing is resistant to wilt, moderately resistant to pasmo but susceptible to rust.

**ROCKET**—Was selected by the Cereal Division at the Central Experimental Farm, Ottawa, from a cross of Argentine 8C X Redwing. The plants are of good height and strong straw. It matures moderately late, about the same as Royal. The seed is brown, larger than Royal with a very good oil content usually 1-2 per cent higher than Royal and a high iodine number approaching that of the Redwing parent. It is immune to races of flax rust now prevalent in Canada but only moderately resistant to flax wilt and pasmo. Rocket has been widely tested for five years and has yielded as well as Royal, or better, in Manitoba.

## SUNFLOWERS

**MENNONITE** — This variety produces tall plants, large seeds and good yields. The percentage of oil content is not as high as Sunrise or Advance.

**SUNRISE**—Is a selection made at Saskatoon Forage Crop Laboratory. It is a late dwarf high yielding variety producing small seeds having higher oil content than Mennonite.

**ADVANCE**—This is a new, first generation hybrid variety produced from two inbred lines at the Dominion Forage Crop Laboratory, Saskatoon, and increased at Morden. Compared to Sunrise, it is earlier, higher yielding and produces taller plants. The oil content is equal to Sunrise.

## FORAGE CROPS

**RHIZOMA** (Alfalfa) — Introduced at the University of British Columbia. Has proved hardy for Manitoba conditions. Has a root system which causes it to spread, which should make it an excellent pasture plant. Seed setting appears equal to Grimm.

Descriptive information on forage crops is contained in **Forage Crops and Stable Agriculture**, by R. Whiteman, and available upon request from Manitoba Pool Elevators.

A complete price list of forage crop seeds may be obtained from the **Seeds Department, Manitoba Pool Elevators, St. Boniface, Manitoba.**





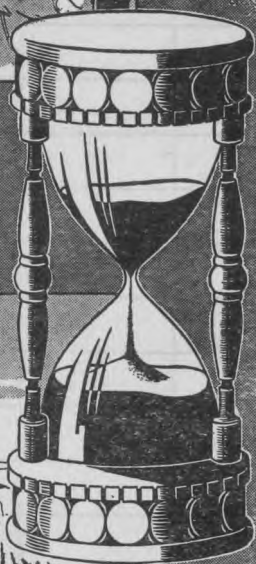
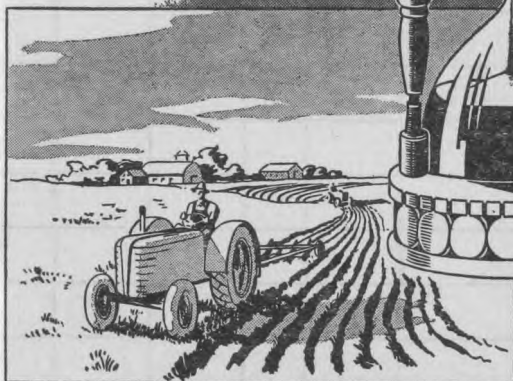
**M.P.E. CROP IMPROVEMENT CLUBS  
AIM TO:**

- 1. Grow improved seed.**
- 2. Provide up-to-date information.**
- 3. Promote a stable agriculture.**

For further information contact your district  
field supervisor, Manitoba Pool Elevators.



# THE TIME HAS COME TO TRANSLATE SOIL CONVERSATION into SOIL CONSERVATION



### TICKET RECORD

[illegible]

Car Expenses

Gas	550.00
Gas	2.00
Gas Oil welding	6.50
Gas	2.00
Gas - repairs	3.00
Tires	1.00
Wash car	2.00
Tire tire change. Spare Oil	3.20



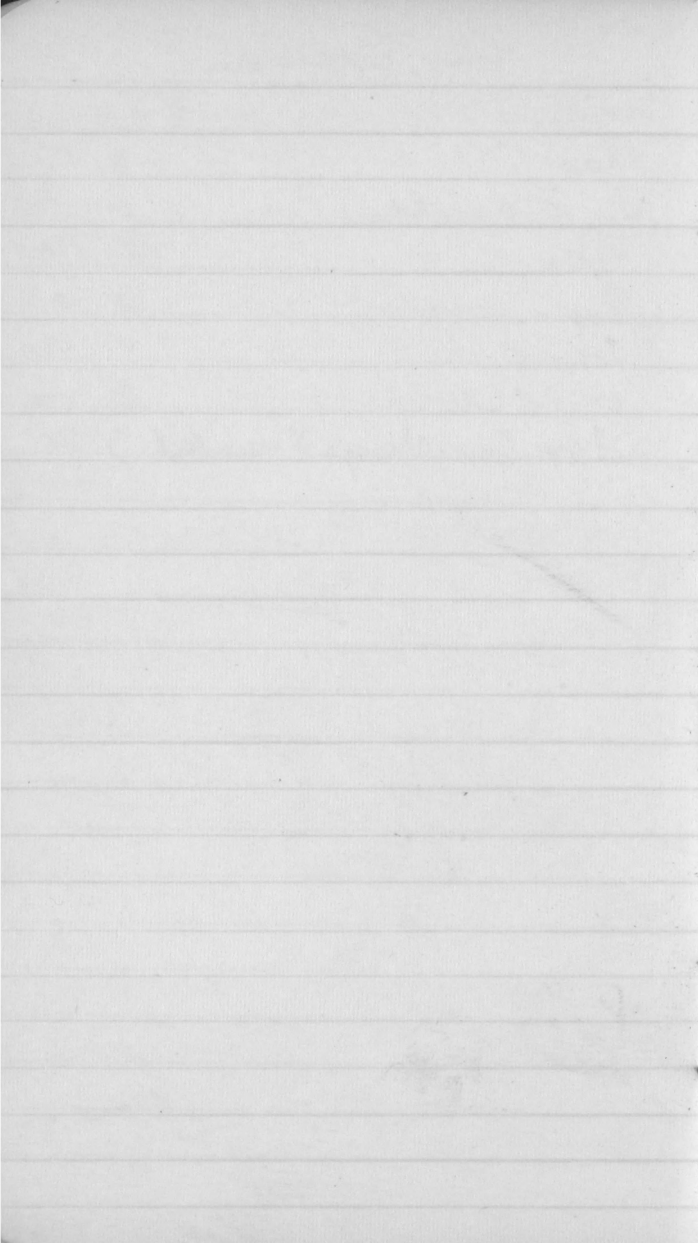


# Car Expenses

Car	550.00
Gas	2.00
Gas Oil welding	6.30
Gas	2.00
Gas - wiper	3.00
fuses	1.00
Weld sweep	2.00
Fix tire. change Summer Oil	3.20



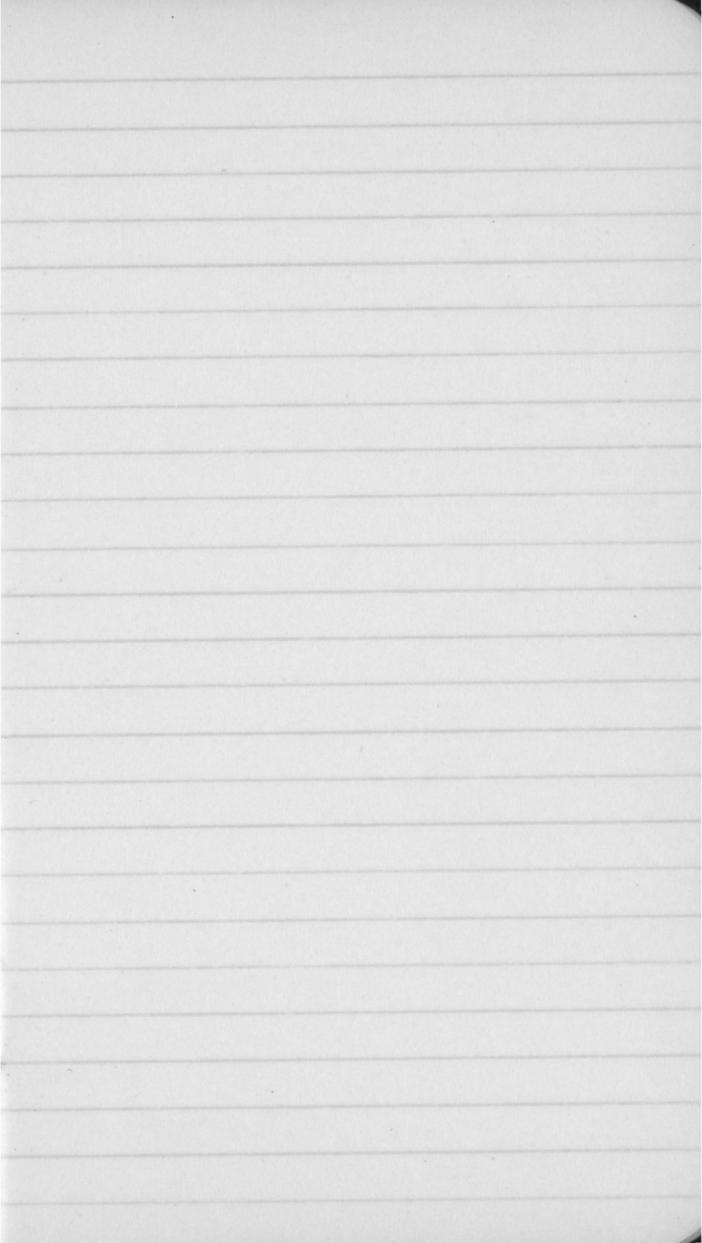
Hog Concent	✓	6.00
Checks	✓	40.22
Lehigh Trucking	✓	6.90
Holmes - Holt - Lutz	✓	20.10
Highman - Weld	✓	13.50
Continental - The Trust	✓	29.50
Rock	✓	2.00
Keenan	✓	1.00
Church	✓	2.00
Wilson - Weying Down	✓	30.00
Converse - Mfg.	✓	11.00
Block - Fast	✓	1.15
Hog. Concentrate	✓	6.00
Creson	✓	3.20
Raymer	✓	13.00
Tafon - Chex	✓	.90
Chick starter	✓	5.10
Seed - w/ft. Clover	✓	28.10
Eggs - 9000		.56
Creson		6.85

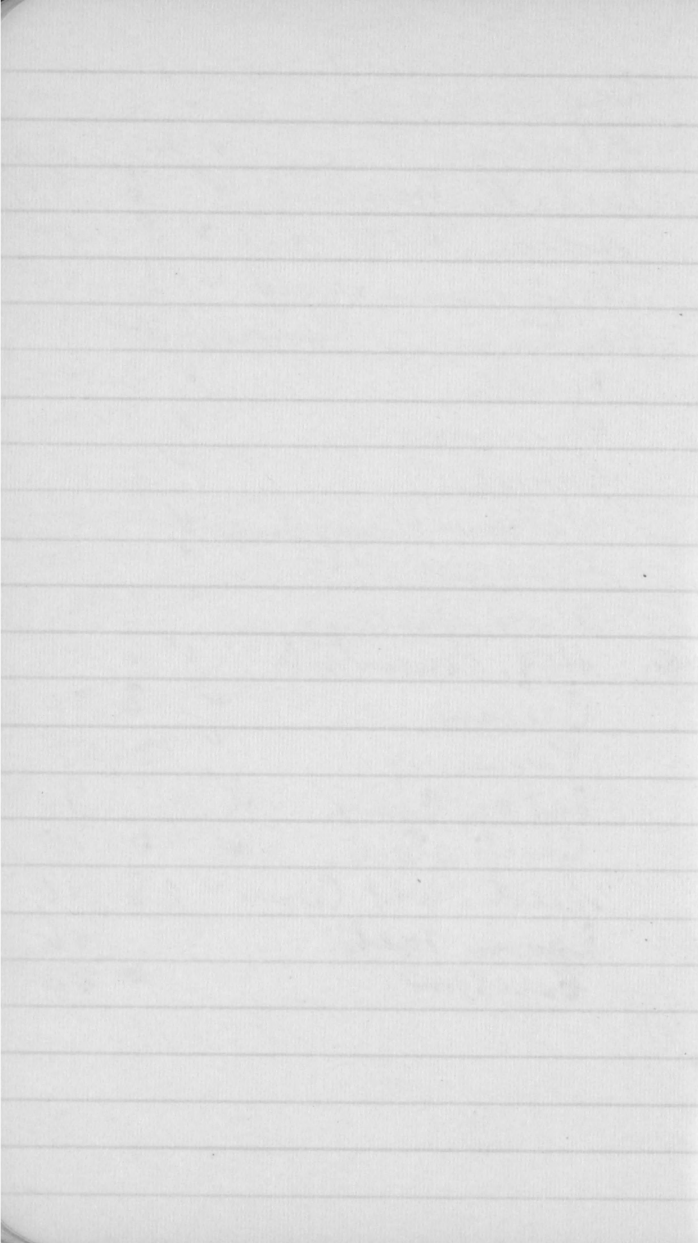


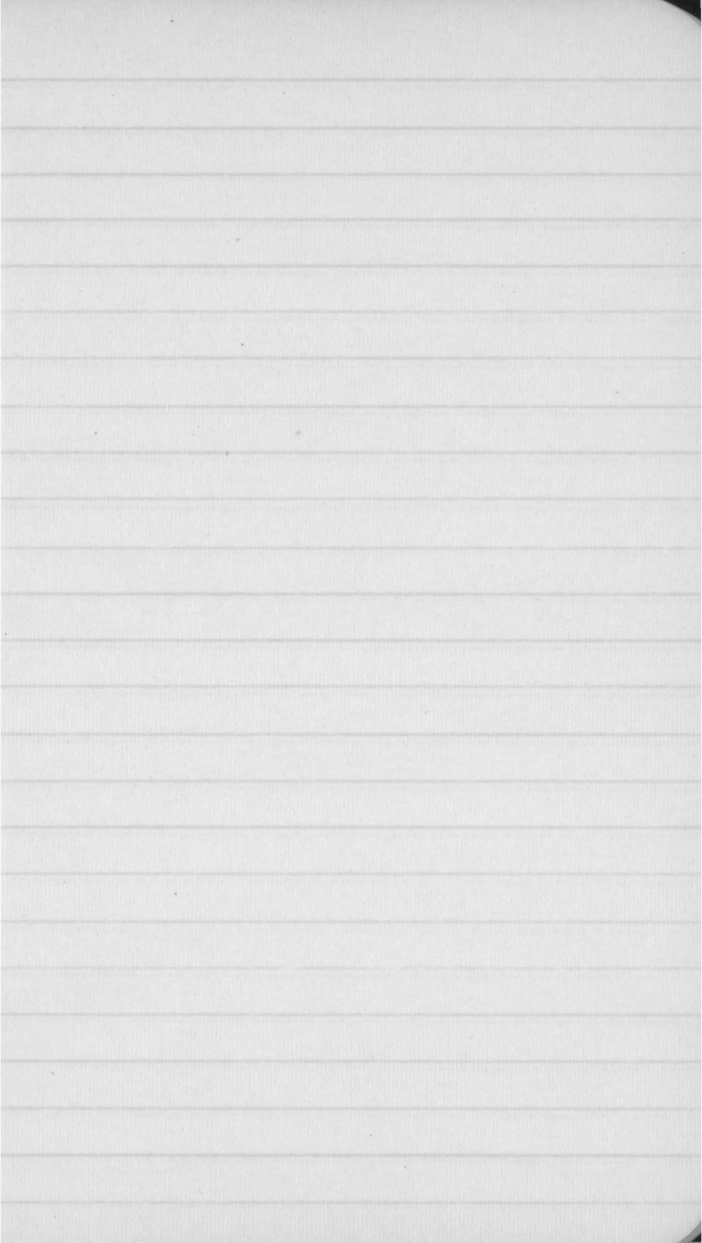
Hog Concent.	✓	6.00
Chicks	✓	40.22
Tashak - trucking	✓	6.90
Hdwe - kolts - lit.	✓	2.10
Sleigh runners & weld.	✓	13.25
Continental Motorist	294	50
Red X	✓	2.00
Kinsman	✓	1.00
Church	✓	2.00
Wilson - Wiring Barn	✓	30.00
Wauwesa Drs.	✓	11.04
Block Dalt	✓	1.15
ops. Hog. Concentrate	✓	6.00
Ceresan	✓	3.30
Runners	✓	13.05
Tafon Chick	✓	.90
Chick starter	✓	5.10
Seed - wht. Clover	✓	28.10
Epsom salts		.56
Ceresan		6.85

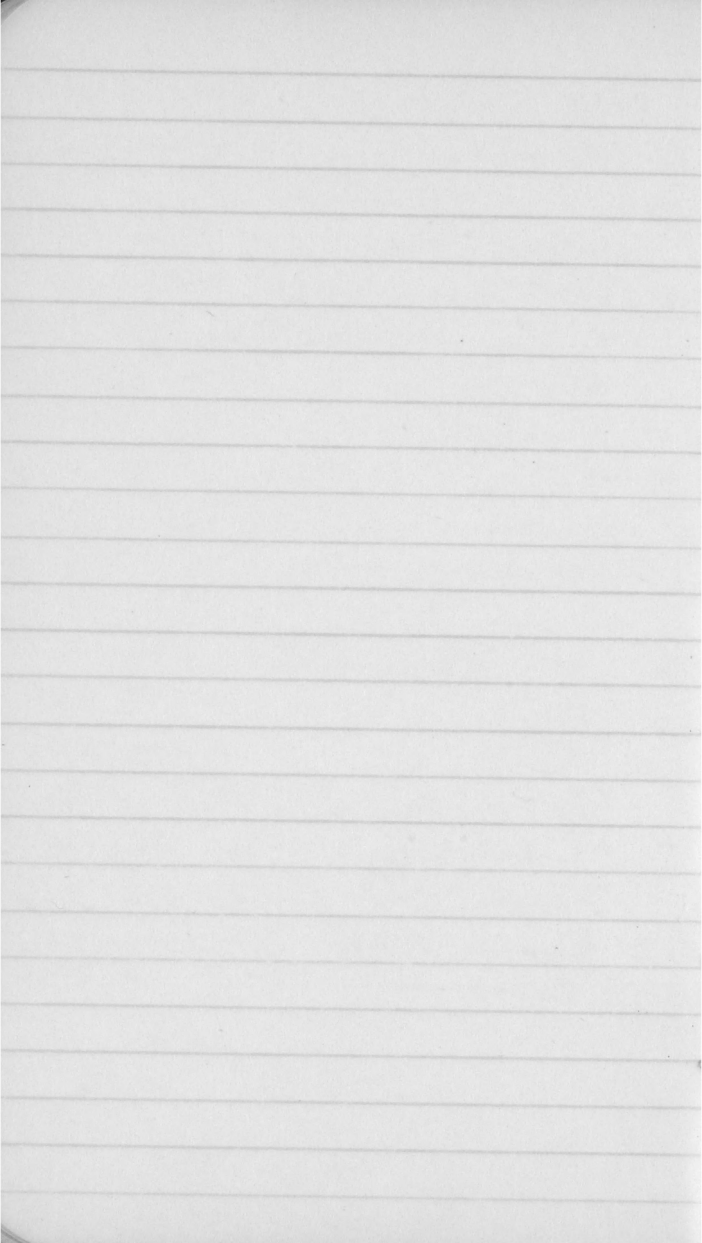




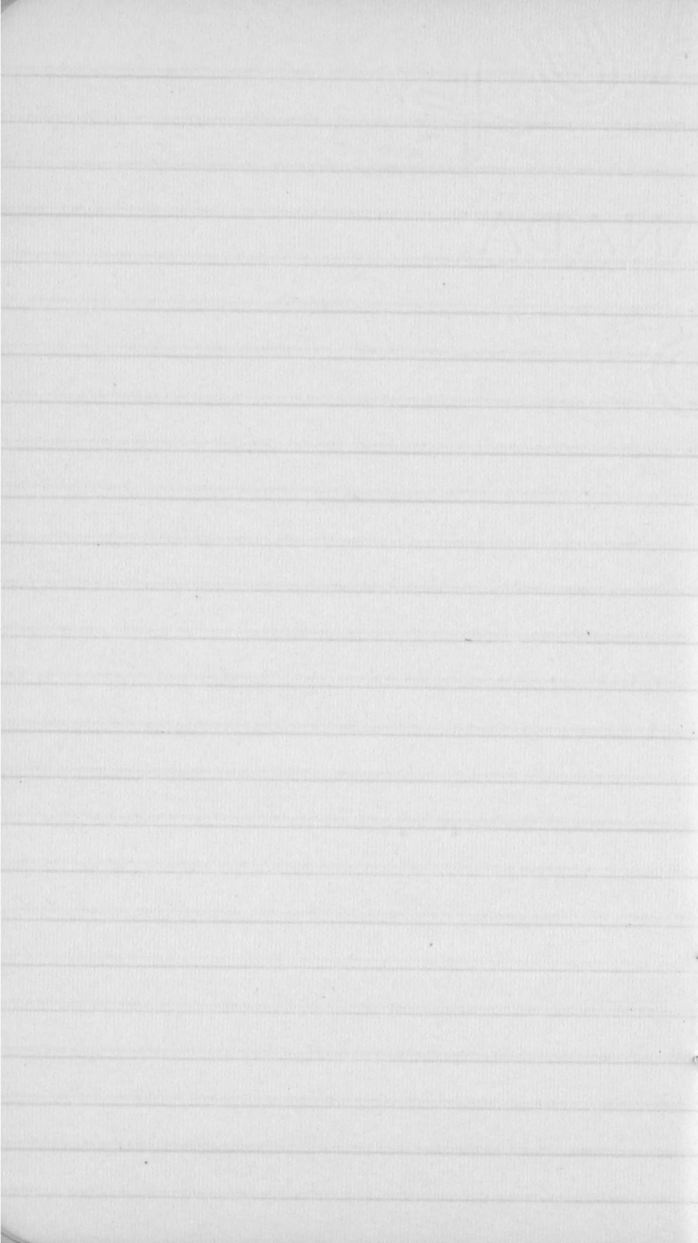


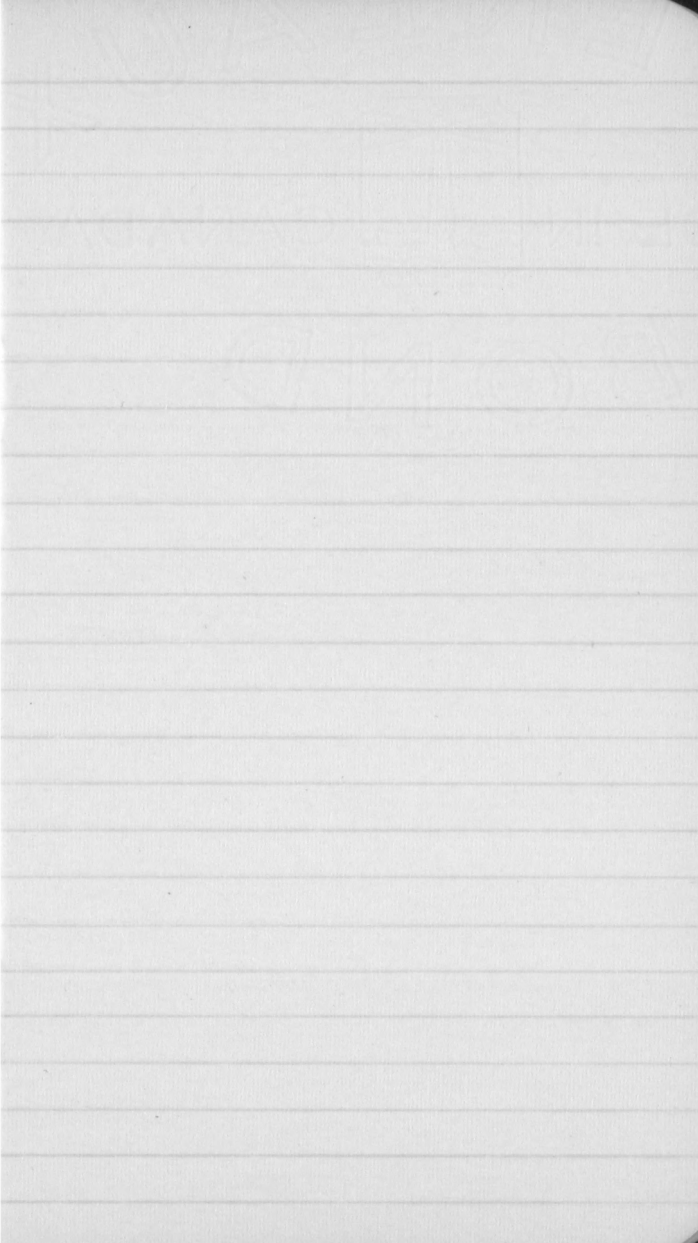


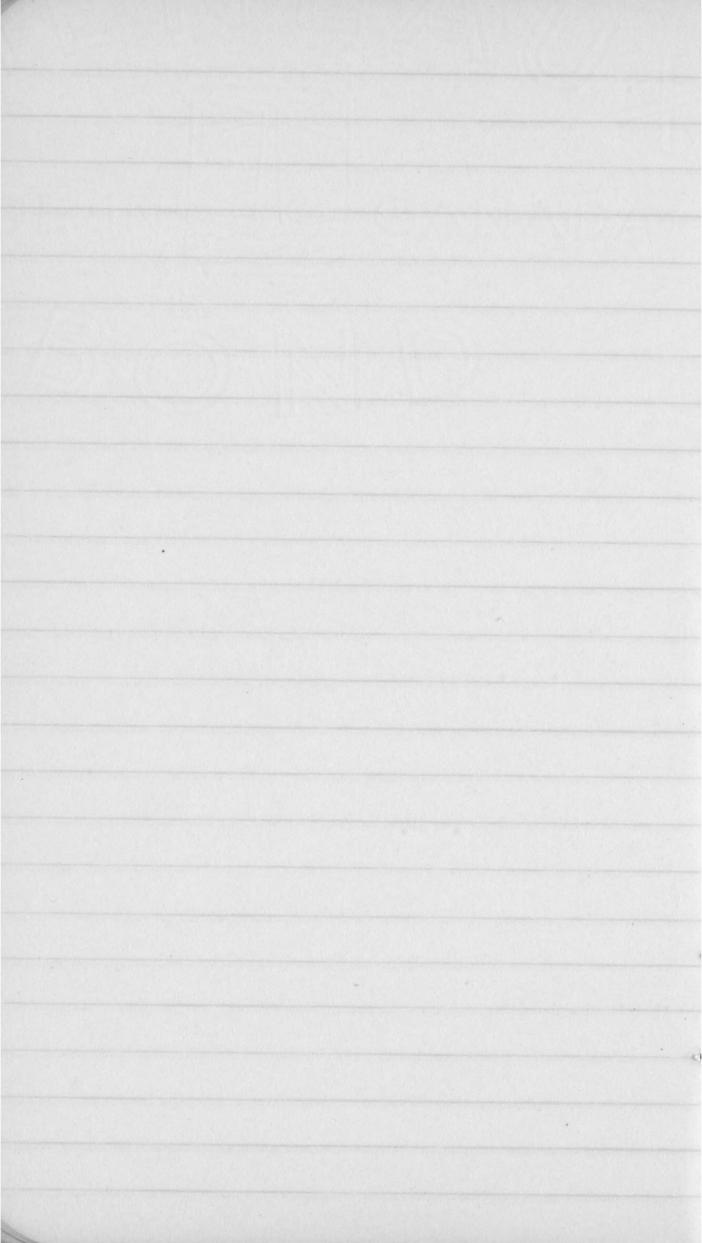




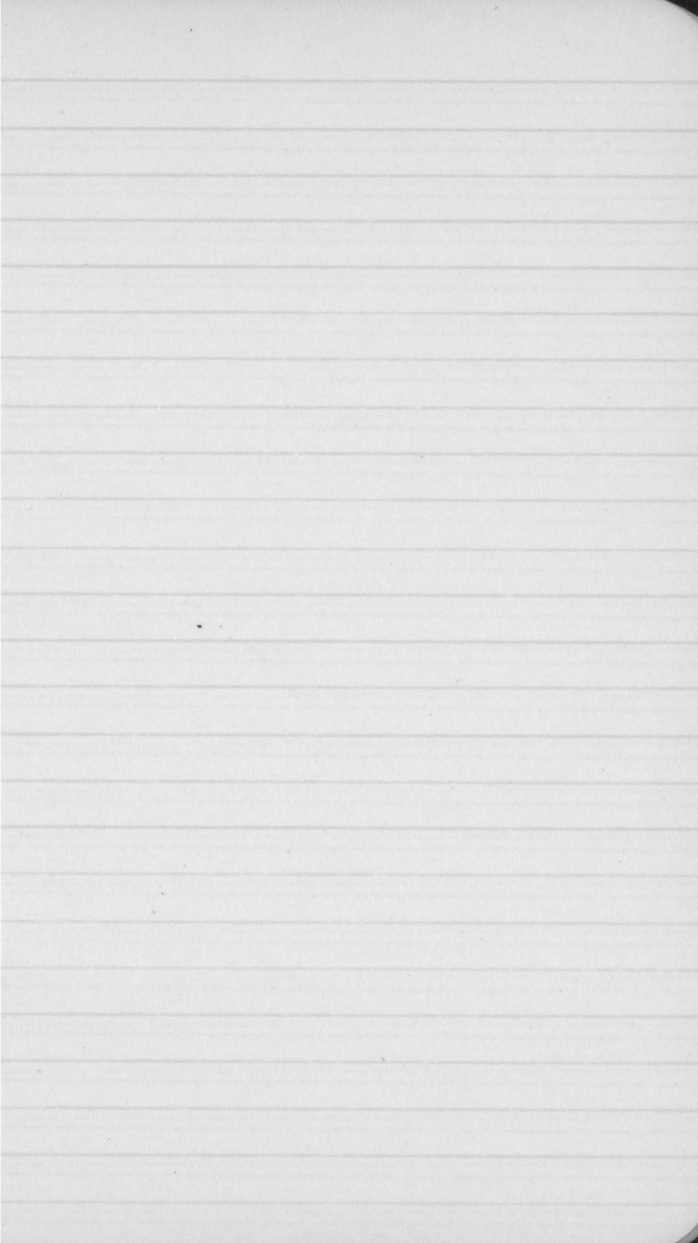


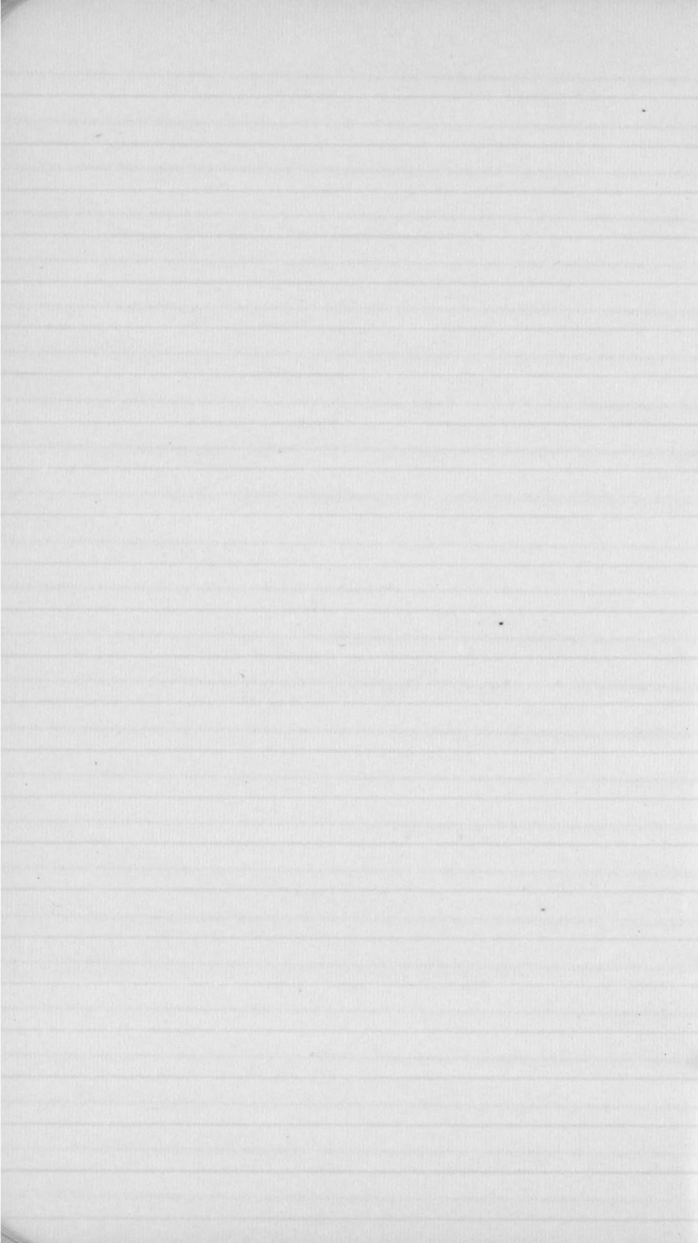


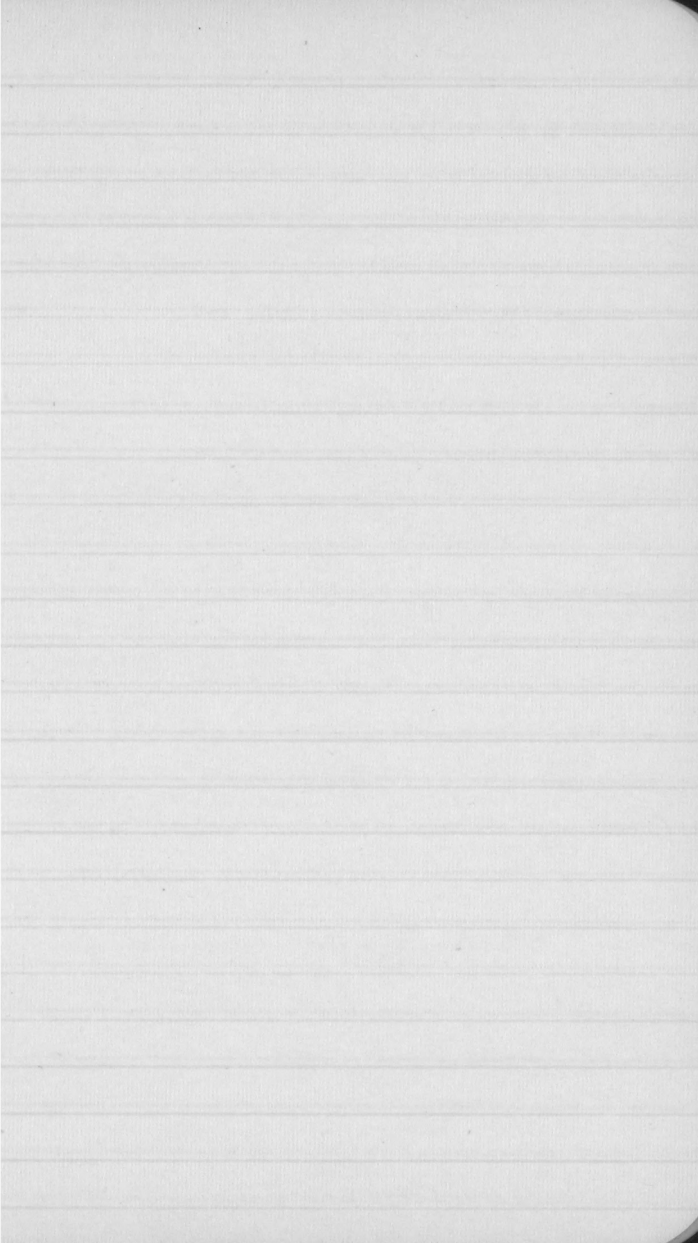


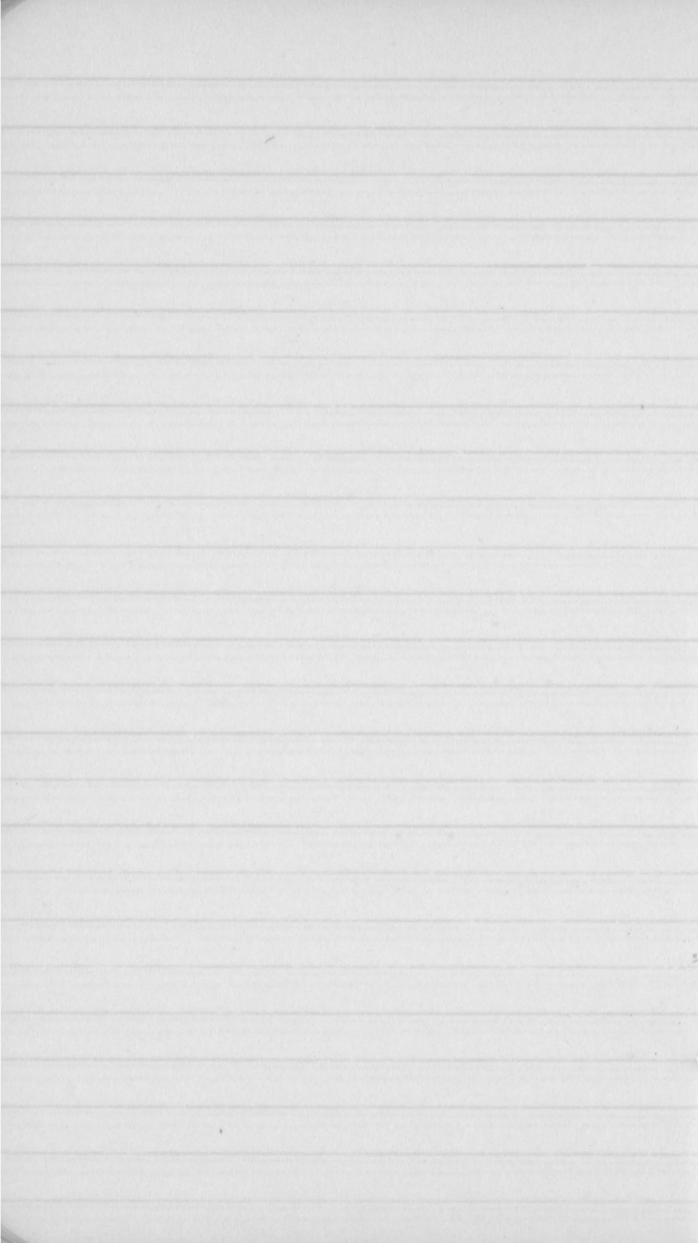


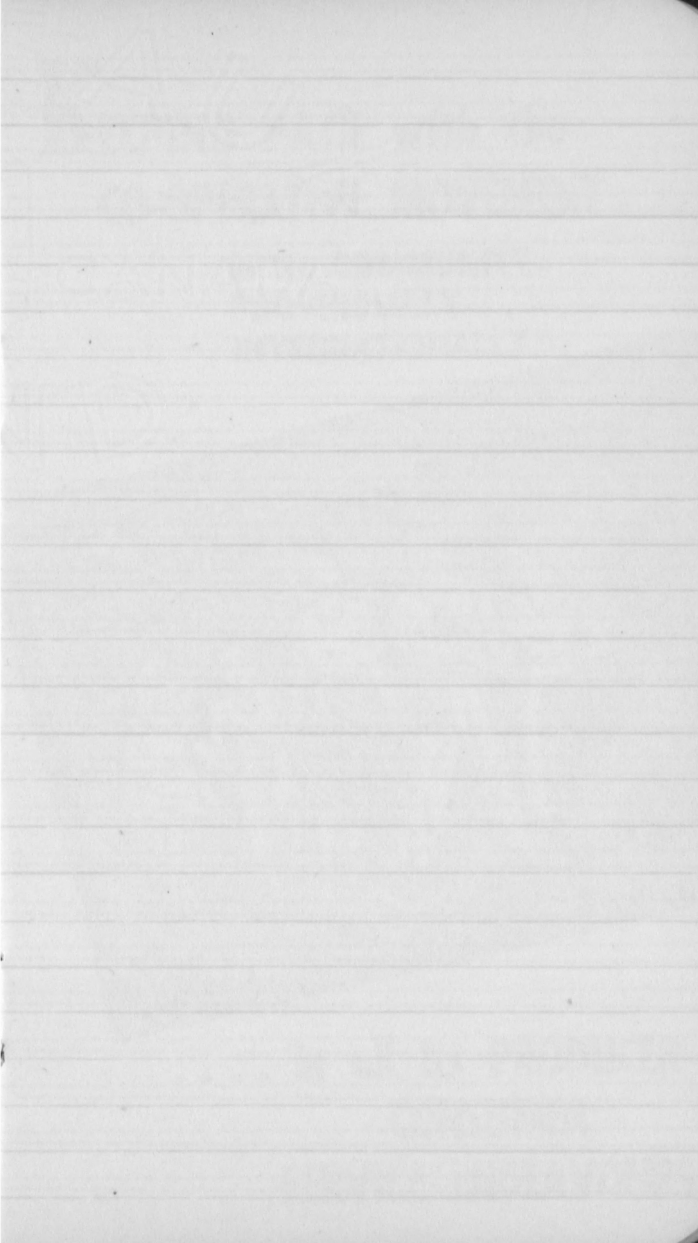


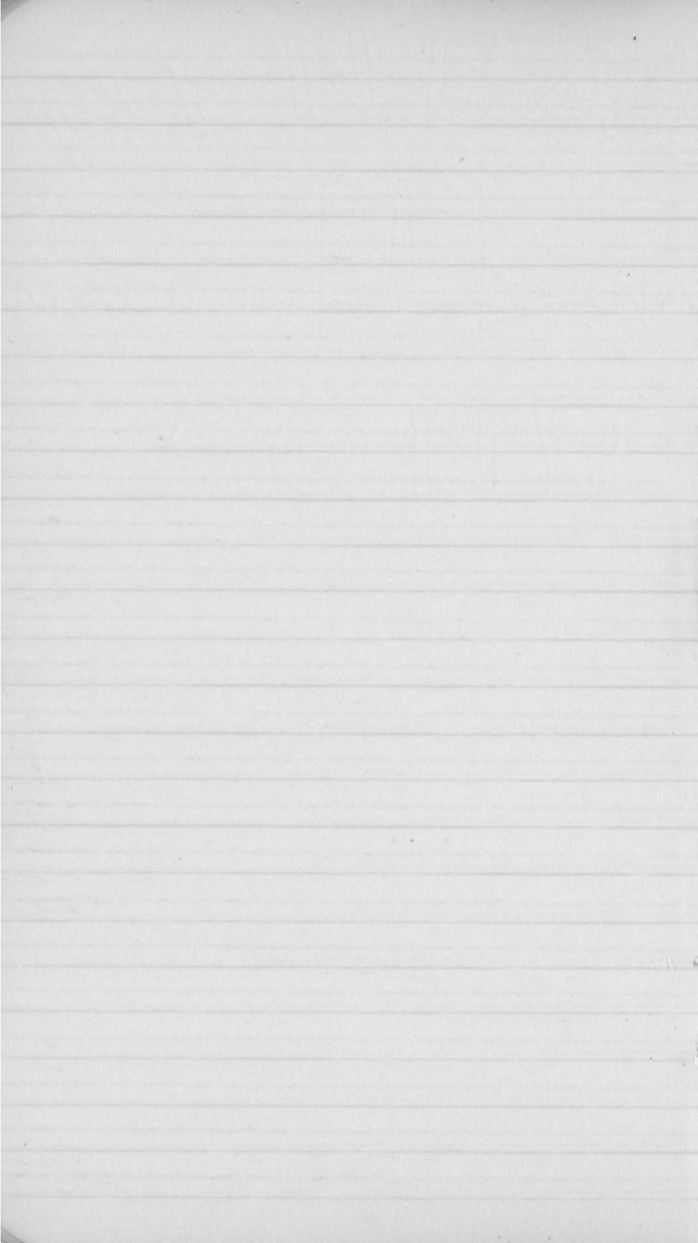










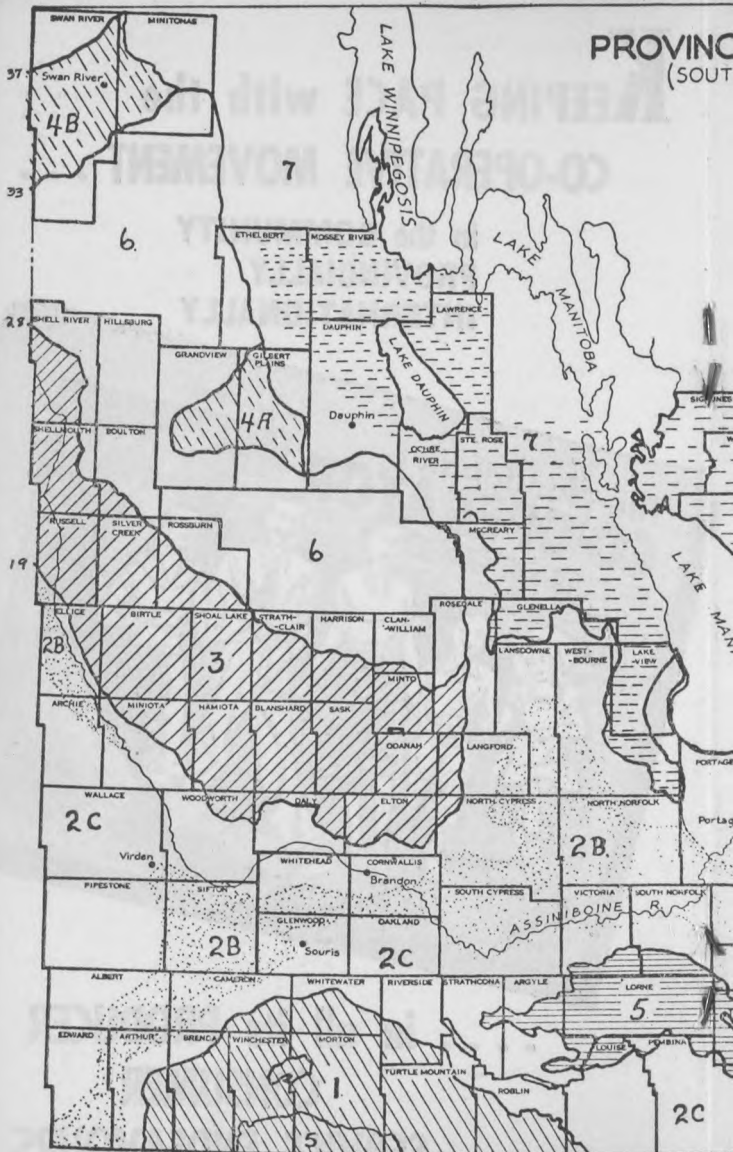


# **K**EEPING PACE with the **CO-OPERATIVE MOVEMENT . . .**

**in the COMMUNITY  
PROVINCIALY  
INTERNATIONALLY**



**. . . . in all its PRODUCER  
CONSUMER  
SERVICE ENDEAVOURS**



• Disorganized

SEE NEXT PAGE FOR RE



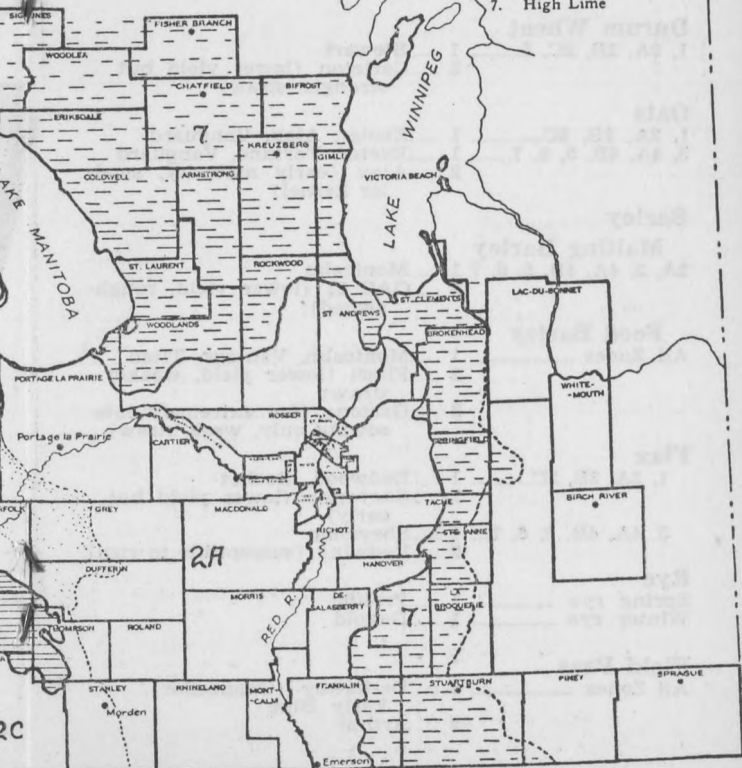
# VINCE OF MANITOBA (SOUTHERN PORTION)

## SOIL-CLIMATIC ZONES

### Legend

(Prevailing Soil Type)

1. Brown-Black Transition
- 2A. Black Earth—Heavy Textured
- 2B. Black Earth—Light Textured
- 2C. Black Earth—Medium Textured
3. Northern Black
- 4A. Grey-Black (Gilbert Plains)
- 4B. Grey-Black (Swan River)
5. Grey-Black and Grey-Wooded
6. Grey-Wooded
7. High Lime

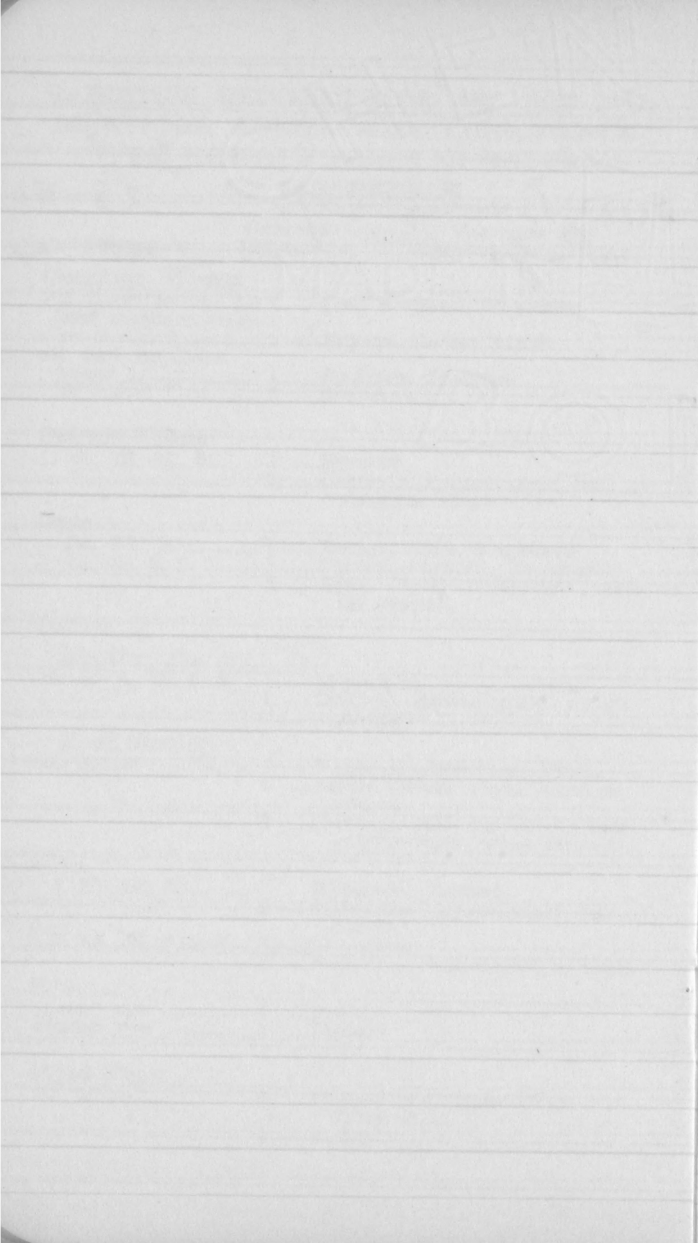


## RECOMMENDED VARIETIES

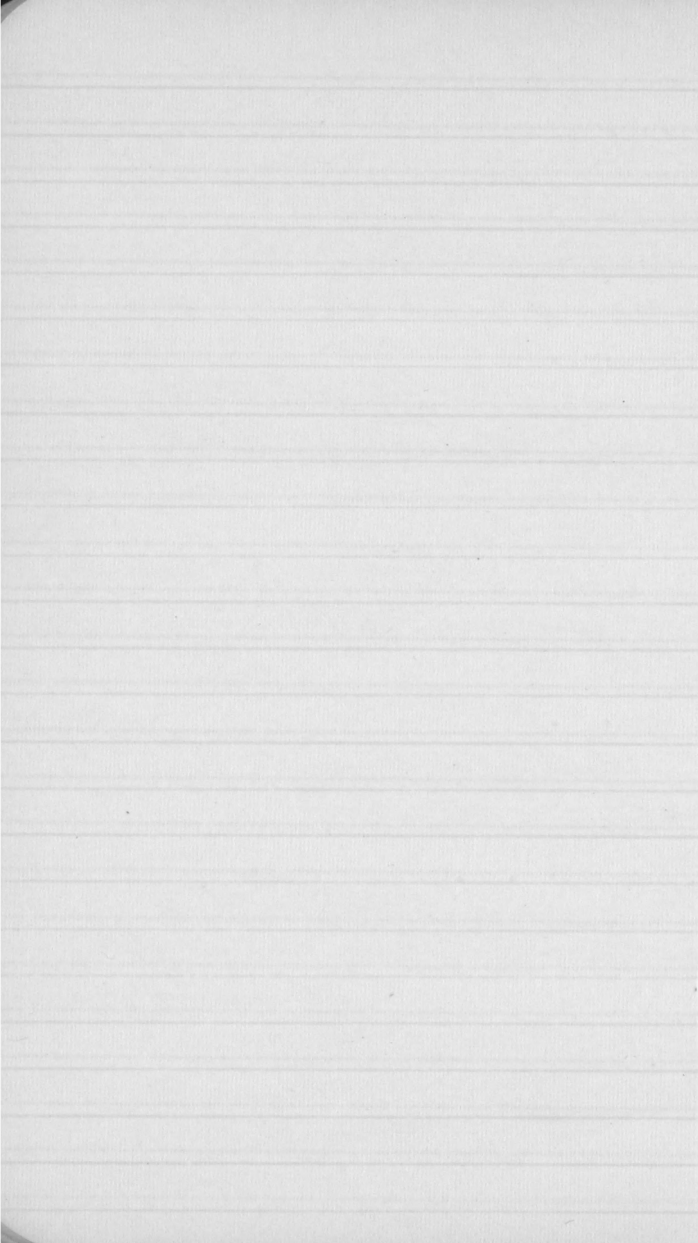
# VARIETIES RECOMMENDED BY THE 1951 MANITOBA AGRONOMIST CONFERENCE FOR VARIOUS ZONES IN ORDER OF PREFERENCE

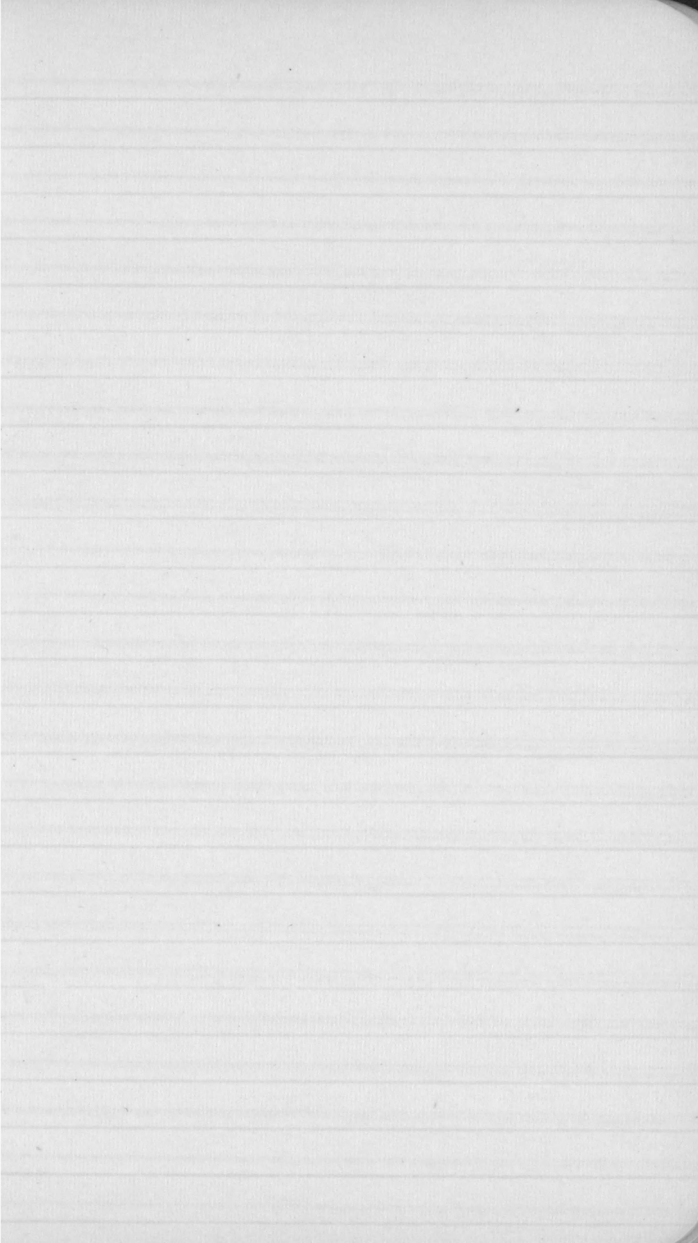
ZONES	ORDER OF PREFERENCE	VARIETIES AND REASONS FOR PLACING
<b>Common Wheat</b>		
All Zones except 4B and northern areas of 6 and 7	1	Lee, Redman, Thatcher
4B and northern areas of 6 and 7	2	Regent (lower yield)
	1	Redman, Thatcher
	2	Saunders
<b>Durum Wheat</b>		
1, 2A, 2B, 2C, 5	1	Stewart
	2	Carleton (lower yield but stronger straw)
<b>Oats</b>		
1, 2A, 2B, 2C	1	Exeter, Ajax, Vanguard
3, 4A, 4B, 5, 6, 7	1	Exeter, Fortune, Vanguard
	2	Ajax (early maturity, smaller kernel)
<b>Barley</b>		
<b>Malting Barley</b>		
2A, 3, 4A, 4B, 5, 6, 7	1	Montcalm
	2	OAC 21 (lower yield, rough-awned).
<b>Feed Barley</b>		
All Zones	1	Montcalm, Vantage, Titan
	2	Plush (lower yield, weaker straw)
	3	Gartons (for extremely late sowing only, weak straw)
<b>Flax</b>		
1, 2A, 2B, 2C	1	Redwood, Rocket
	2	Sheyenne (lower yield but early)
3, 4A, 4B, 5, 6, 7	1	Sheyenne
	2	Redwing (susceptible to rust)
<b>Rye</b>		
Spring rye	1	Prolific
Winter rye	1	Dakold
<b>Field Peas</b>		
All Zones	1	Dashaway (Chancellor), Early Blue
	2	Arthur

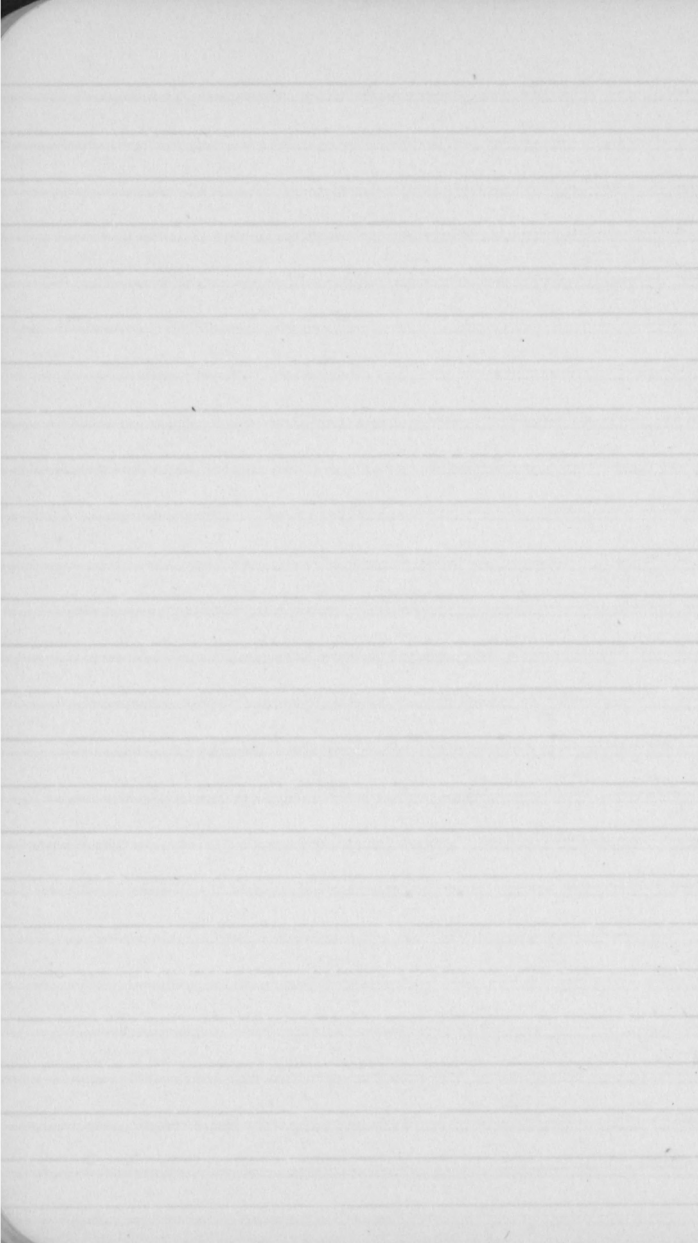
45-49 Wht. final	57.
Wheat	219.15
51-52 Barley adj.	28.52
Pigs	141.44



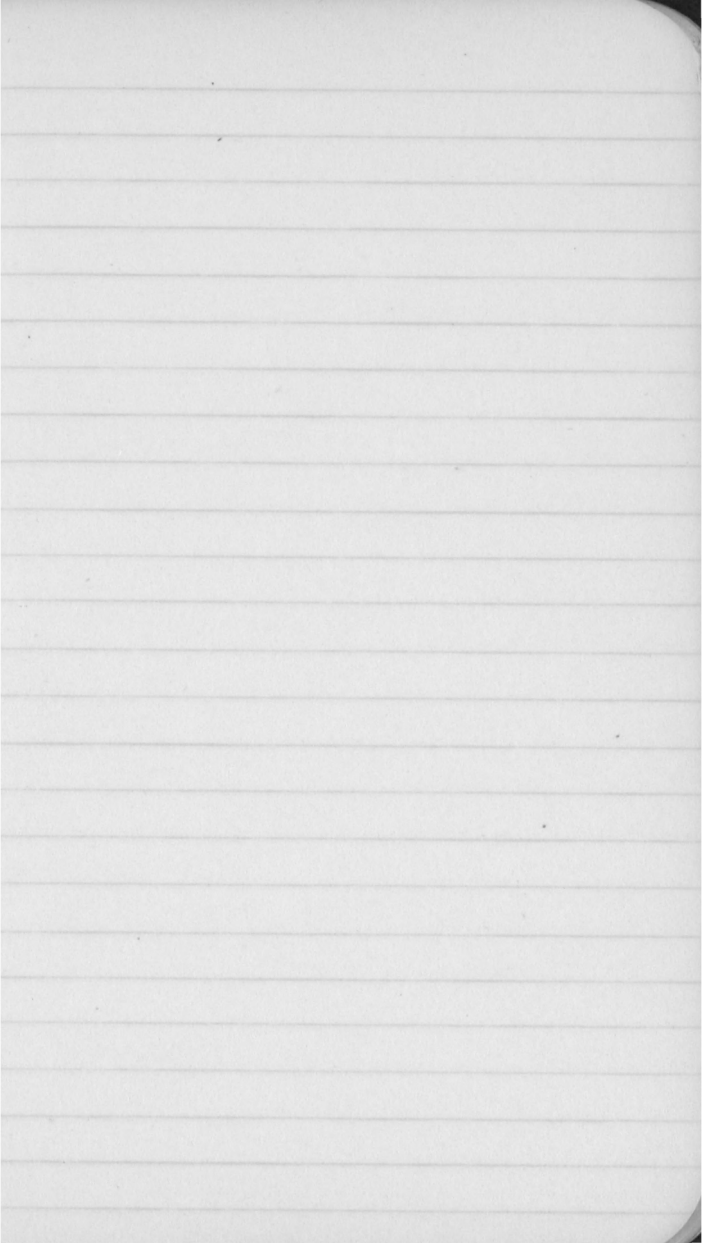


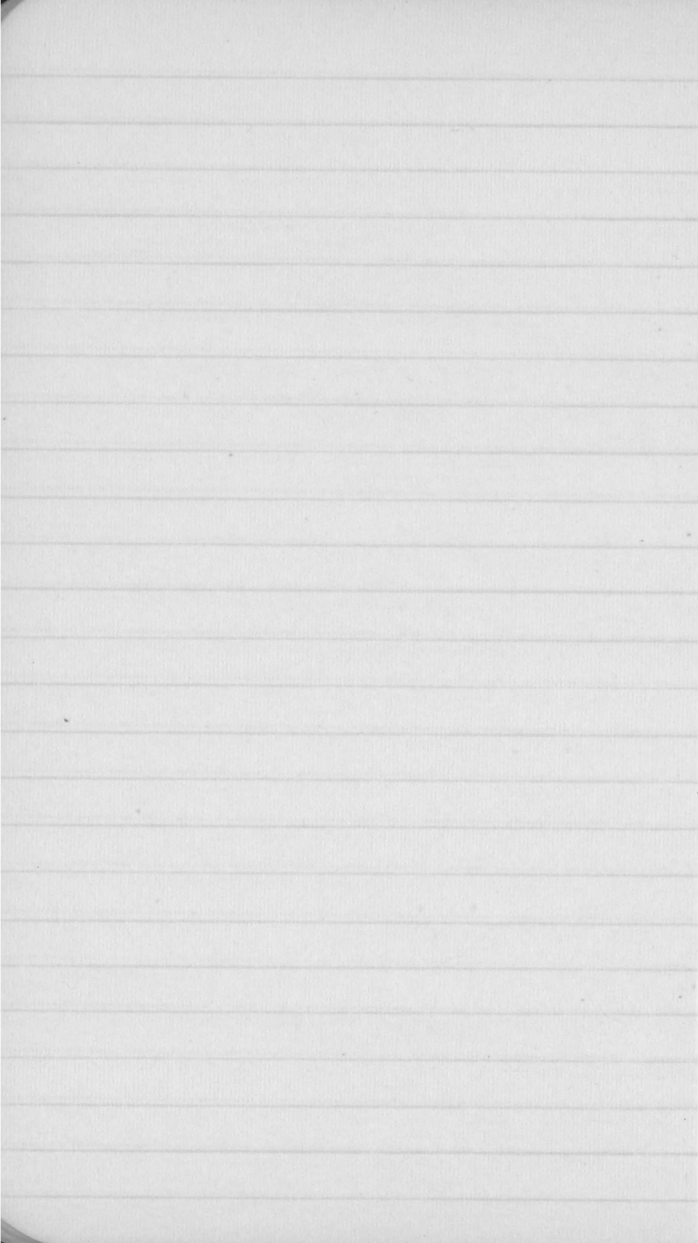


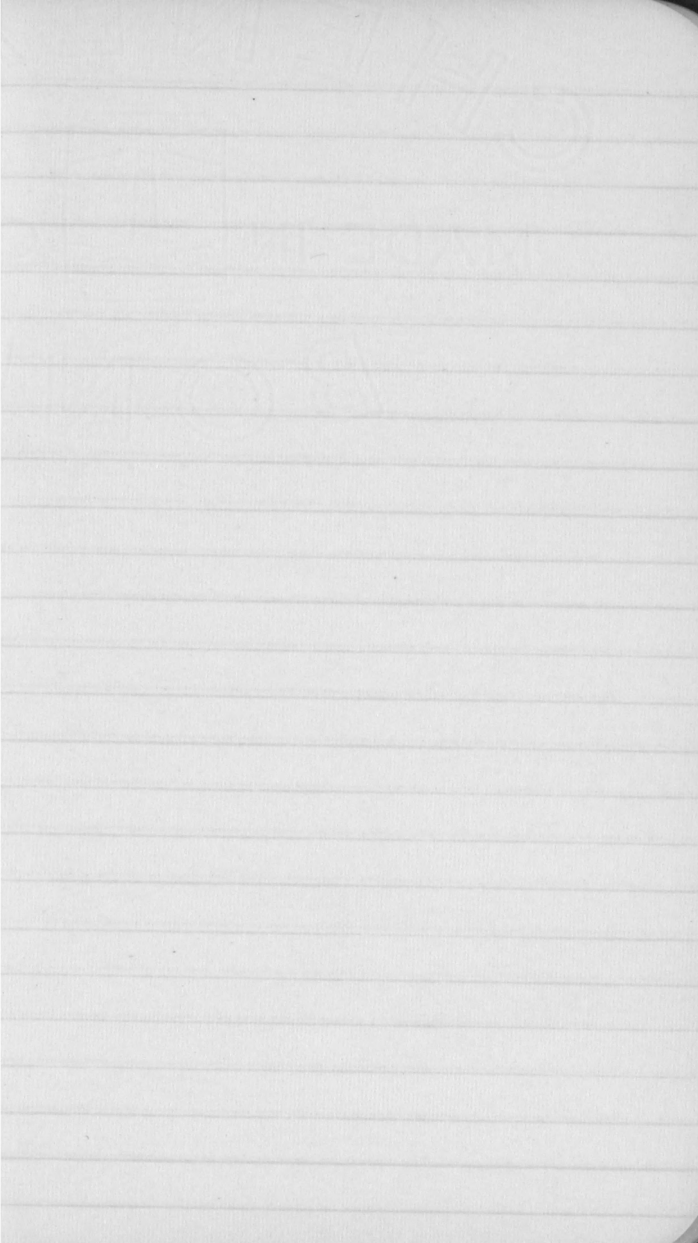


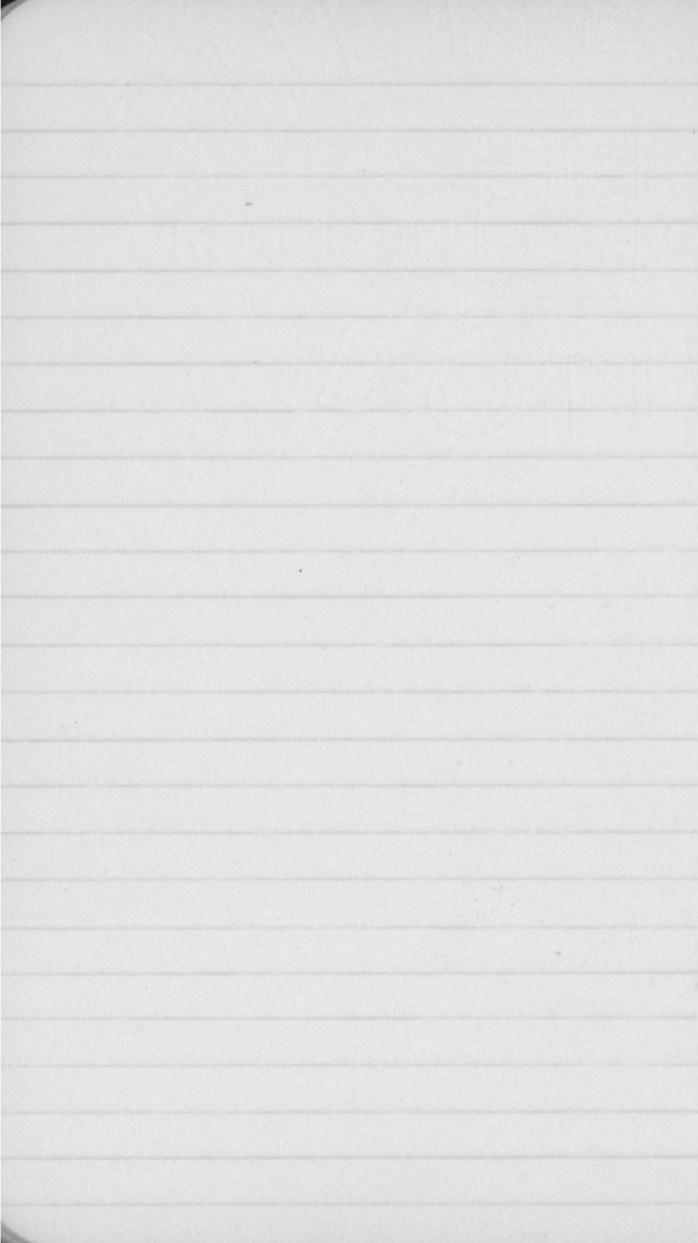


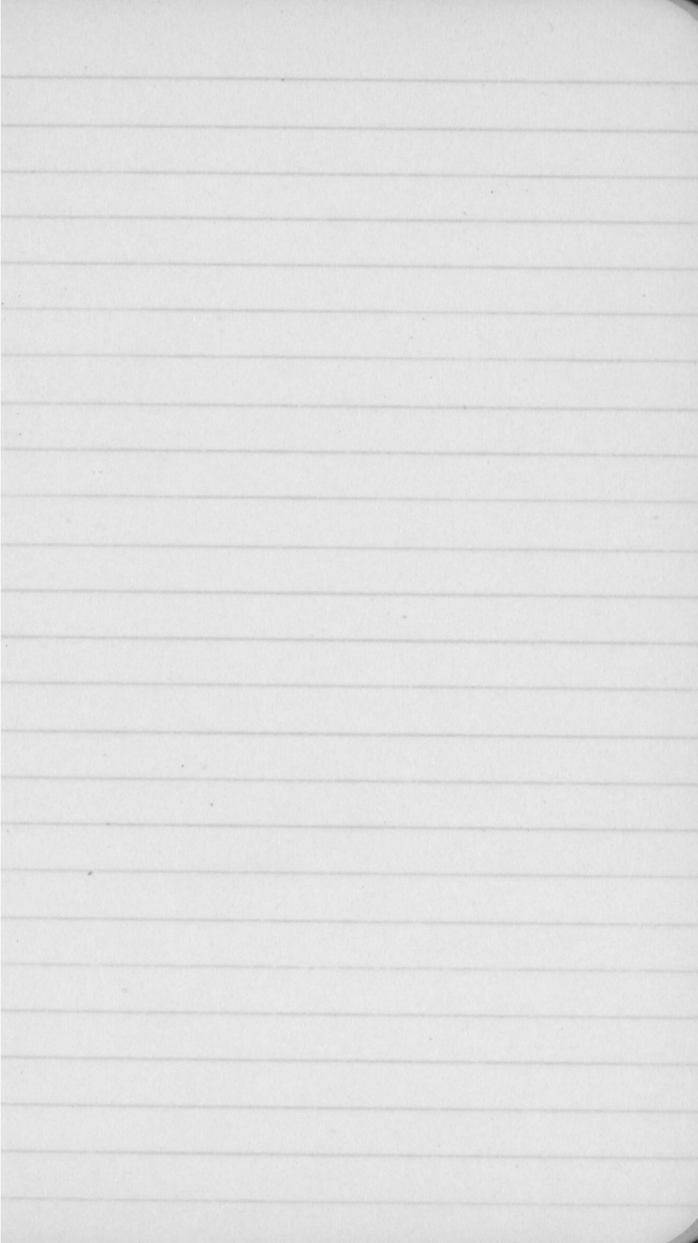


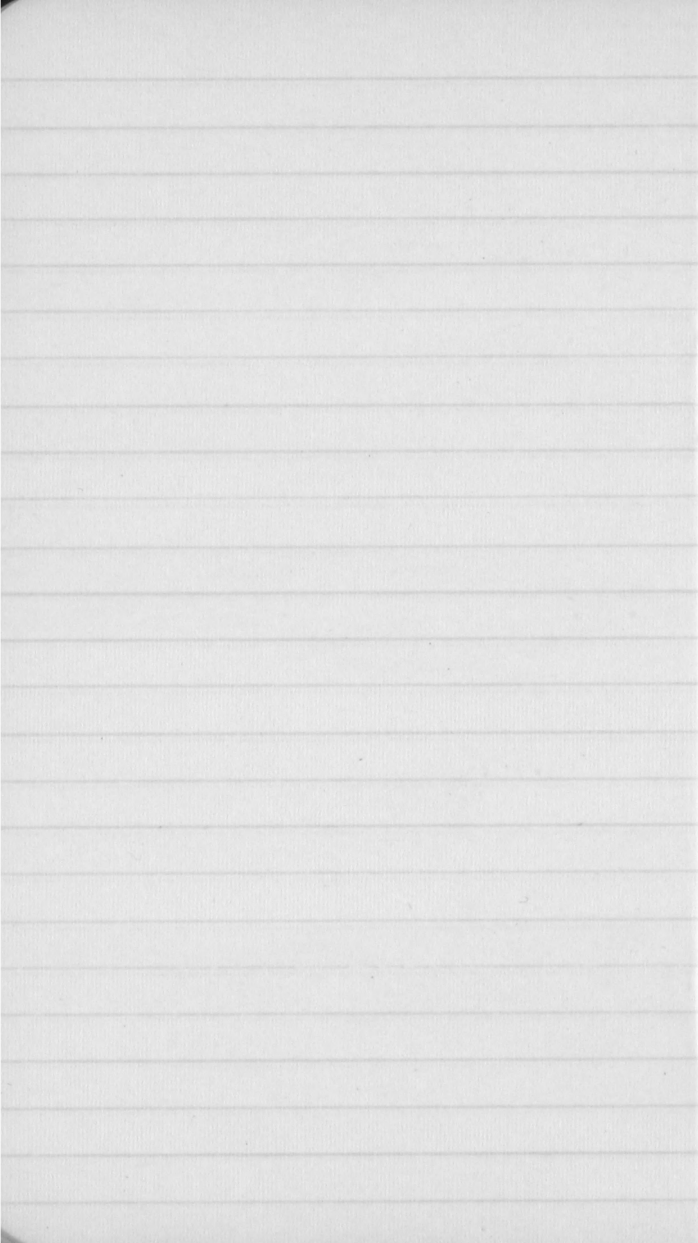


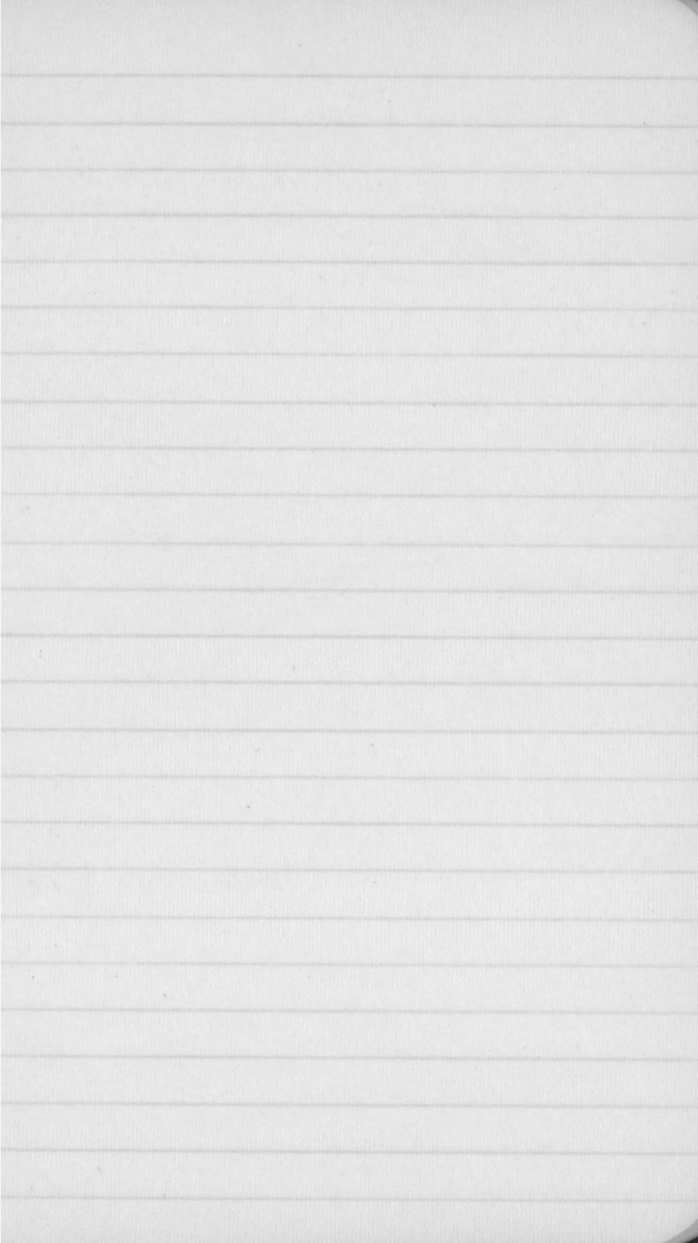


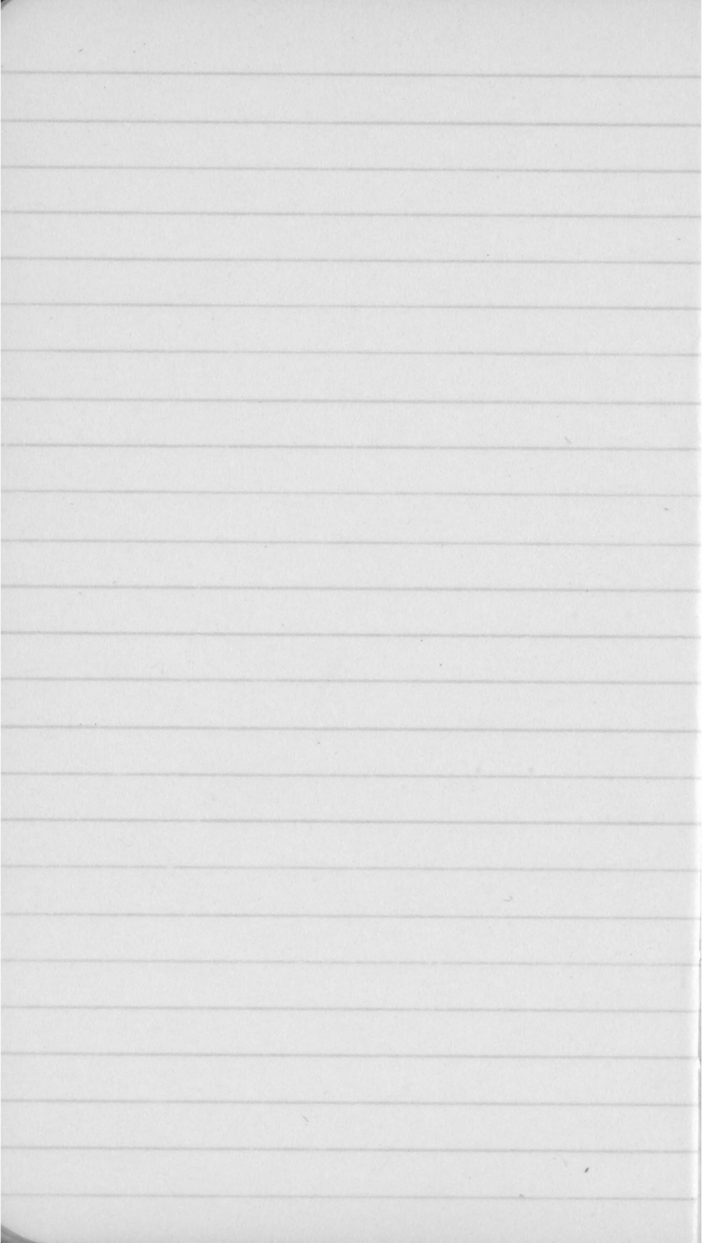




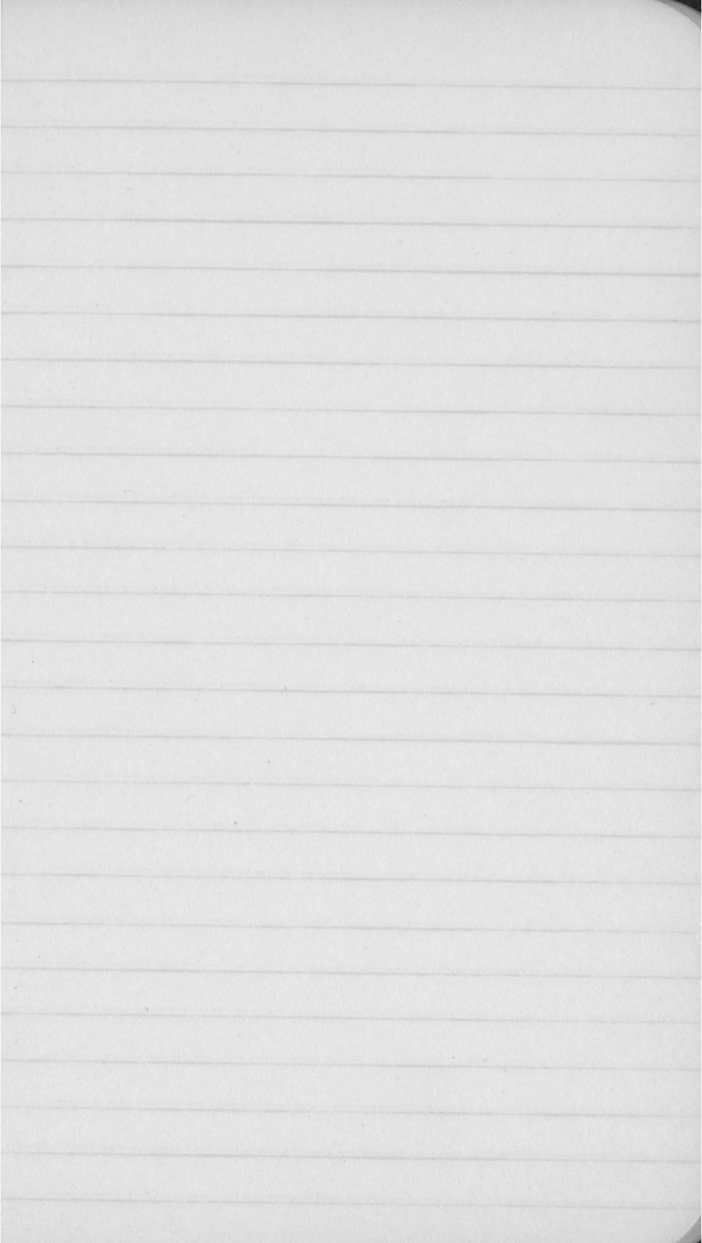




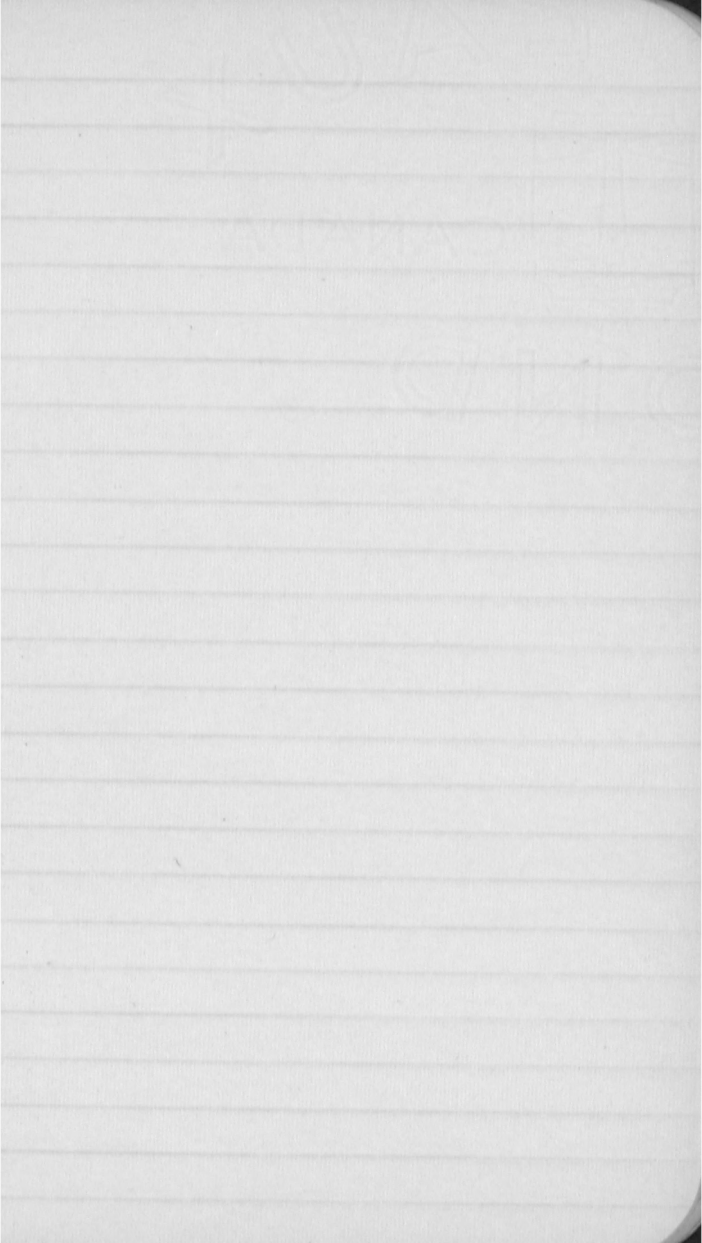


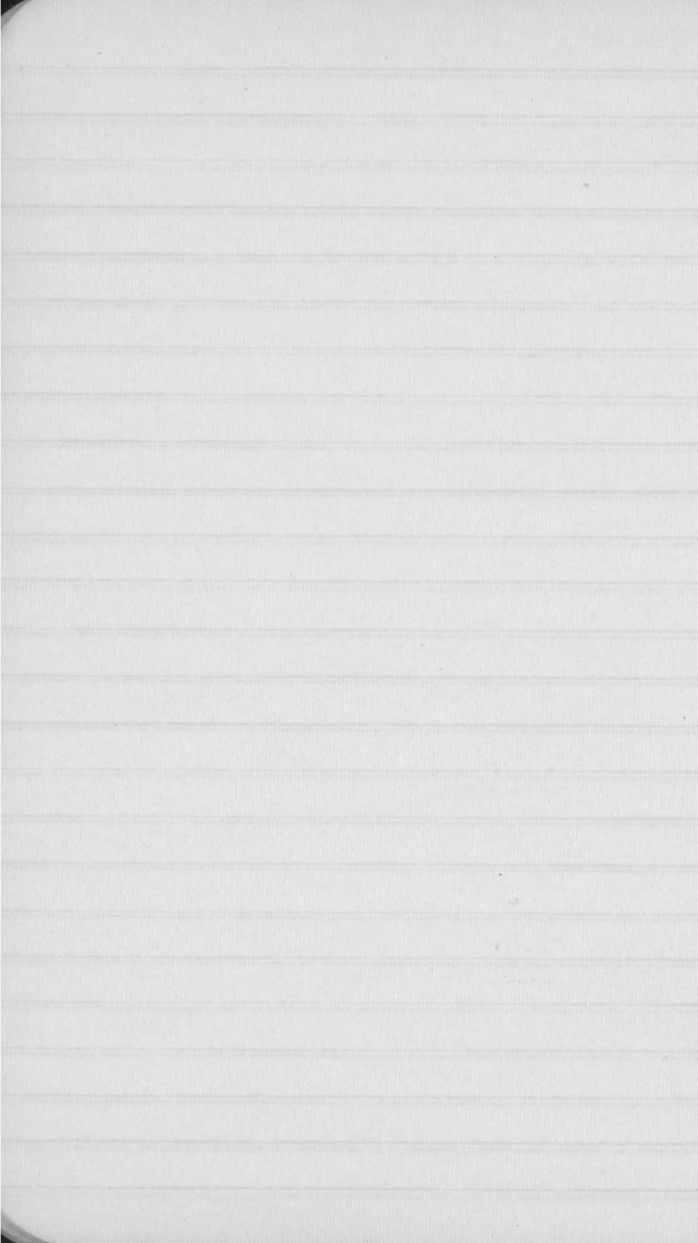


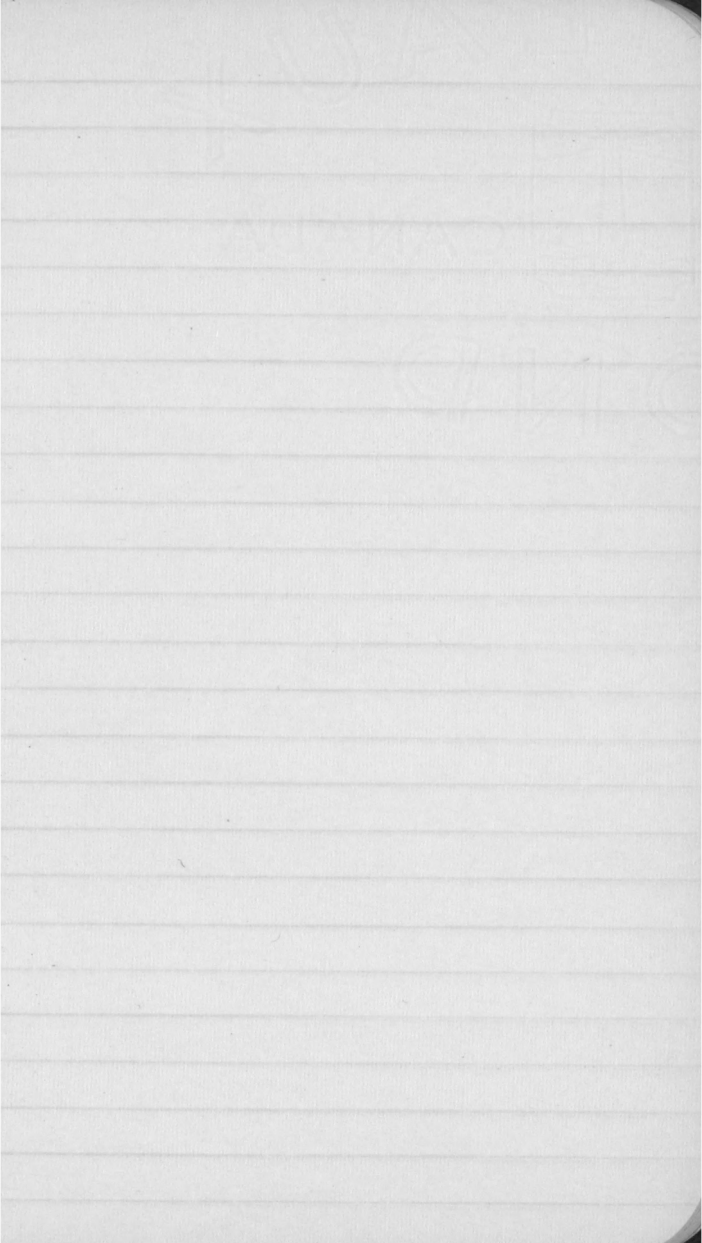


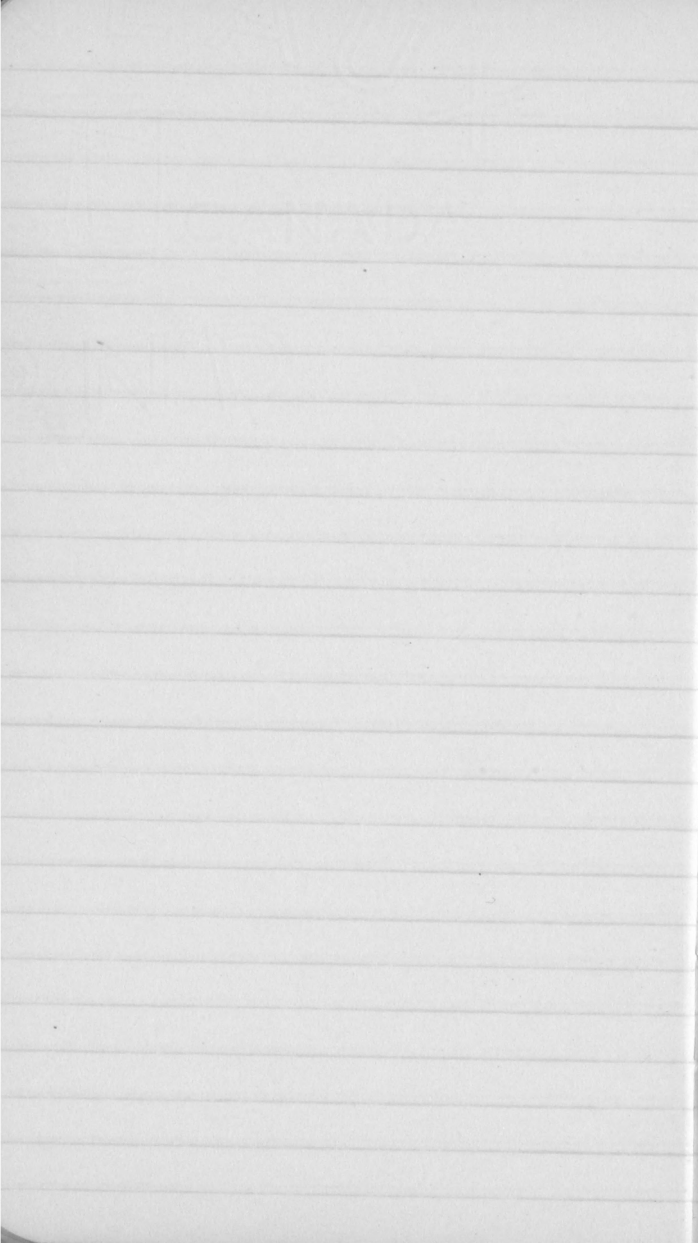


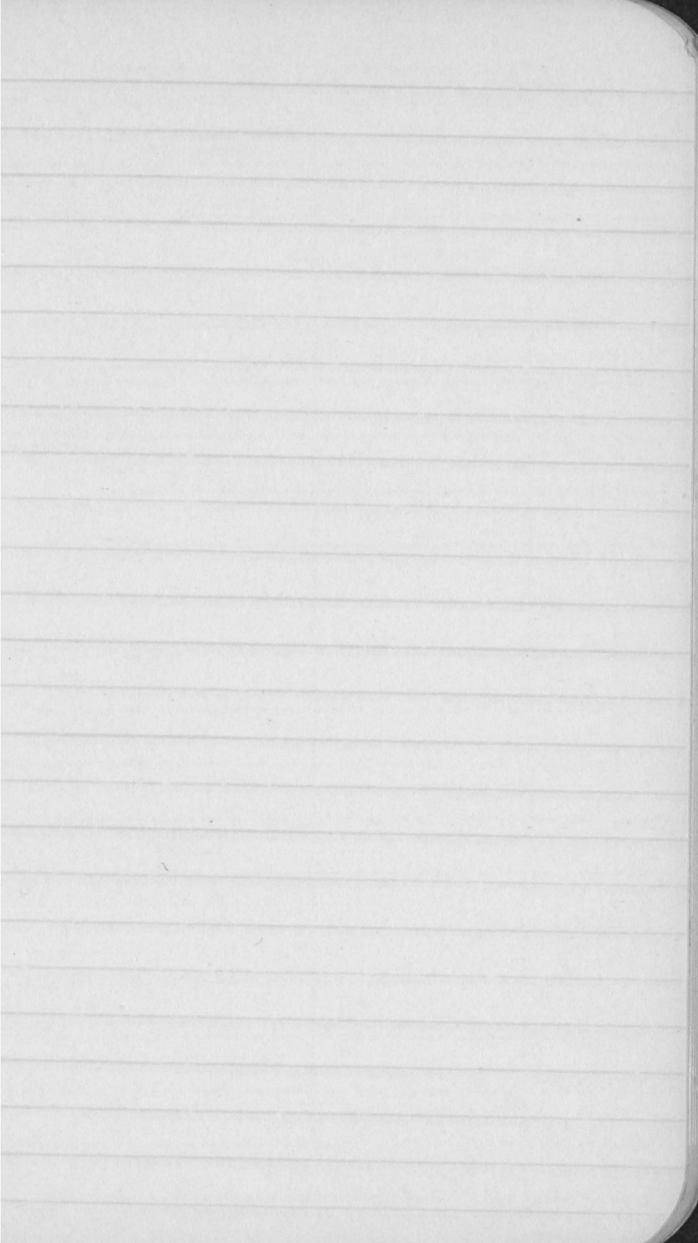


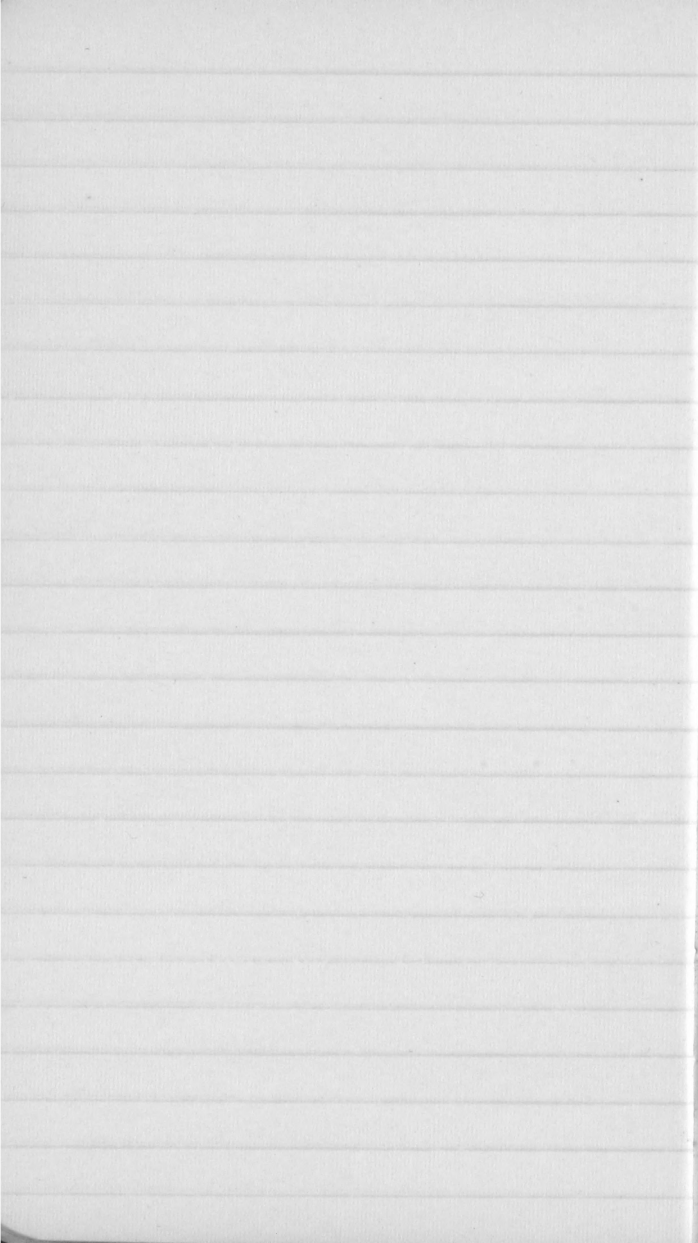






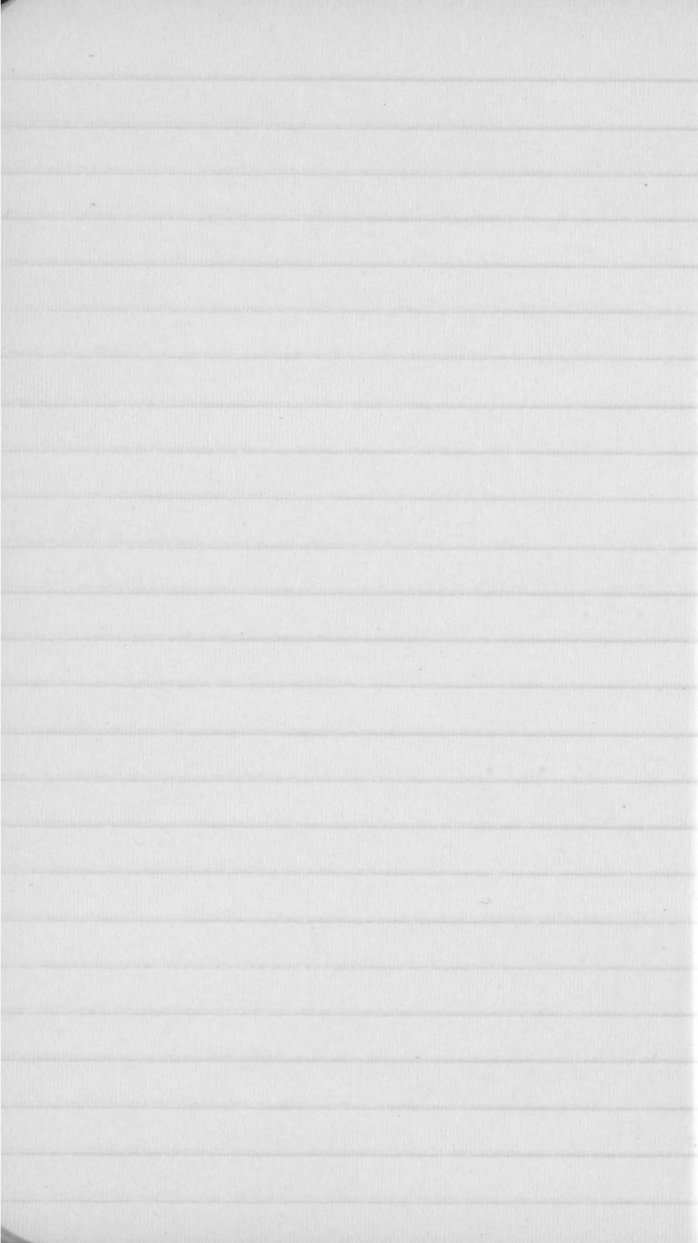




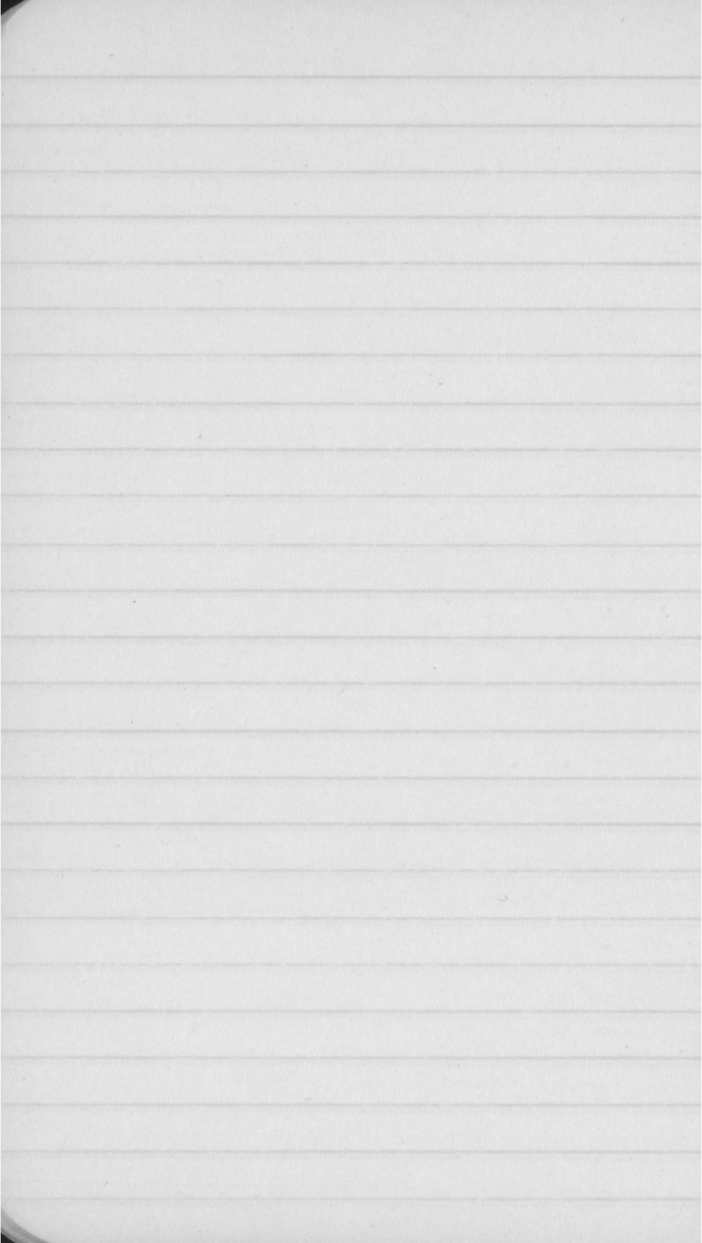












## RECORD OF LIVESTOCK SALES

[illegible]

MANITOBA POOL ELEVATORS  
**LIVESTOCK DEPARTMENT**



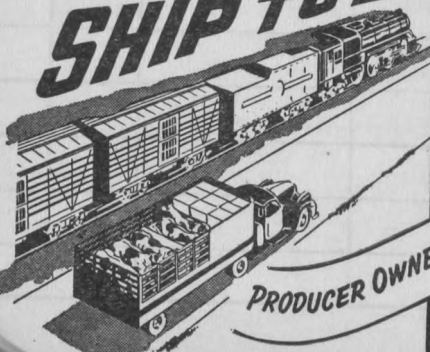
**Market Your  
LIVESTOCK  
CO-OP**

*Through Your Own*

Fill Out Your  
Manifest *and*



**SHIP TO** →



CANADIAN  
LIVESTOCK  
CO-OPERATIVE  
(WESTERN) LTD.  
UNION STOCKYARDS  
ST. BONIFACE MAN.

**PRODUCER OWNED and CONTROLLED**

# MIXTURES FOR HAY AND PASTURE PRODUCTION

In areas where moisture is deficient:

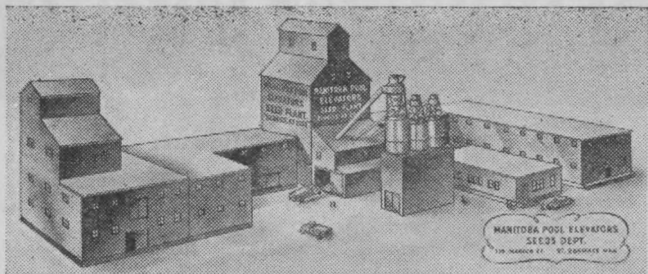
MIXTURE No. 1	{ Brome .....	8 lbs. per acre		
	{ Crested Wheat .....	3 " " "		
	{ Alfalfa .....	2 " " "		
MIXTURE No. 2	{ Brome .....	10 " " "		
	{ Alfalfa .....	3 " " "		
MIXTURE No. 3	{ Crested Wheat .....	8 " " "		
	{ Alfalfa .....	3 " " "		

In areas where moisture is plentiful:

MIXTURE No. 1	{ Brome .....	6 lbs. per acre		
	{ Meadow Fescue .....	5 " " "		
	{ Alfalfa .....	3 " " "		
MIXTURE No. 2	{ Brome .....	8 " " "		
	{ Alfalfa .....	4 " " "		
MIXTURE No. 3	{ Brome .....	6 " " "		
	{ Crested Wheat .....	5 " " "		
	{ Alfalfa .....	4 " " "		

On low areas under water for a time in spring:

MIXTURE No. 1	{ Brome .....	6 lbs. per acre		
	{ Meadow Fescue .....	4 " " "		
	{ Alfalfa .....	3 " " "		
	{ Alsike .....	1 " " "		
MIXTURE No. 2	{ Brome .....	6 " " "		
	{ Timothy .....	4 " " "		
	{ Alsike .....	2 " " "		
MIXTURE No. 3	{ Meadow Fescue .....	8 " " "		
	{ Alsike .....	4 " " "		
MIXTURE No. 4	{ Meadow Fescue .....	4 " " "		
	{ Timothy .....	2 " " "		
	{ Reed Canary Grass .....	3 " " "		



# SEED PLANT

with

**Modern Cleaning Equipment**

operated by

**MANITOBA POOL ELEVATORS  
Seeds Department**

715 Marion Street, St. Boniface, Manitoba

**You are invited to visit this plant.**

Manitoba Pool Elevators operate this plant as an additional service to growers, and a processing and marketing service is provided for growers of forage crops and cereal seeds from all parts of the province.

Government graded seed may be obtained by placing an order with any Pool Elevator agent in Manitoba, or by communicating with the Seed Plant direct.

Full support from members who are buying or selling seed will enable this organization to improve the service now being rendered.

**Direct all inquiries to your elevator agent, or communicate with Manitoba Pool Elevators, Seeds Department, 715 Marion St., St. Boniface, Manitoba.**

**Telephone: 204 825**



# TERMS USED IN THE PRODUCTION AND SALE OF SEED

## 1. Foundation Seed:

This is stock produced by plant breeders.

## 2. Elite Stock Seed:

This means selected seed or plants produced by plant breeders, the products of which may be eligible to produce registered seed.

## 3. Registered Seed:

This is seed which is *only sold in sealed containers* and which is the multiplied progeny of (a) Elite Stock Seed, or (b) registered seed.

The first crop grown from Elite Seed is called First Generation Registered; the crop grown from First Generation Registered and succeeding crops are simply designated Registered. Registered seed must have a recorded ancestry back to the original plant breeder. In order to pass field inspection the field must not contain more than one major off-type in 10,000 plants.

## CERTIFIED SEED

Certified seed is seed derived from a crop which has been inspected in the field by an inspector of the Plant Products Division, and if found satisfactory in the field and after cleaning, has then been sealed in the sack by an inspector.

There are two grades of this class of seed; they are used chiefly for potatoes and forage crops; they are also used for cereals which do not produce progeny true enough to type to meet the standards required for Registered Seed.

It may contain not more than one off-type in 1,000 plants.

## COMMERCIAL SEED

This is seed which has not been inspected in the field, or in the sack (unless having a special tag) and therefore carries no guarantee of being true to type or to being of one variety, but it is seed which is graded under a control sample; this sample is submitted to the Plant Products Division, 730 Dominion Public Building, Winnipeg, by the owner and is graded for its purity as to content of weeds and other kinds of grain, and of germination vitality, and quality.

# LEGAL WEIGHT AND SEEDING RATES PER ACRE OF FARM CROPS

CROP	WEIGHT PER BUSHEL	SEEDING RATES PER ACRE
Alfalfa .....	60 lbs.	In rows 4 to 6 lbs. 10 to 12 lbs.
Barley .....	48	1 to 2 bus.
Beans, Field .....	60	$\frac{1}{2}$ to $\frac{3}{4}$ bus.
Blue Grass .....	14	8 to 10 lbs.
Brome .....	14	12 to 14 lbs.
Buckwheat .....	50	$\frac{3}{4}$ to $\frac{1}{2}$ bus.
Clovers		
Red .....	60	8 to 12 lbs.
Alsike .....	60	5 to 7 lbs.
Sweet .....	60	10 to 15 lbs.
White Dutch .....	61	5 to 7 lbs.
Corn-Shelled .....	56	Check row 8 to 10 lbs. with drill, 36" rows 15 to 25 lbs.
On cob (dry) .....	70	
Crested Wheat .....	22	12 to 14 lbs.
Flax .....	56	20 to 35 lbs.
Meadow Fescue .....	25	12 to 14 lbs.
Millet—Foxtail (Hay)....	48	15 to 30 lbs.
Proso (Grain)....	50	
Oats .....	34	2 to 3 bus.
Orchard Grass .....	14	10 to 12 lbs.
Peas—Field .....	60	$1\frac{1}{2}$ to $2\frac{1}{2}$ bus.
Potatoes .....	60	With Oats $\frac{1}{2}$ to $\frac{3}{4}$ bus. 10 to 14 bus.
Rape .....	50	3 to 5 lbs.
Argentine Rape .....		In 30" rows 6 lbs. In 6" rows 15 lbs.
Red Top .....	14	5 to 8 lbs.
Reed Canary .....	31	5 to 7 lbs.
Rye—Fall, Spring .....	56	1 to $1\frac{1}{4}$ bus.
Slender Wheat Grass (Western Rye) .....	14	10 to 14 lbs.
Sorghum .....	50	In rows 8 to 10 lbs. 20 to 30 lbs.
Soy Beans .....	60	In rows 25 lbs. Broadcast 60 lbs.
Speltz —.....	50	$1\frac{1}{2}$ to 2 bus.
Sudan Grass .....	40	Broadcast 20 to 30 lbs.
Sunflower—		
Sunrise .....		4 to 5 lbs.
Mennonite .....		7 to 8 lbs.
Timothy .....	48	8 to 10 lbs.
Wheat—Red Spring .....	60	1 to $1\frac{3}{4}$ bus.
Durum .....	60	$1\frac{1}{2}$ to 2 bus.

## TO DETERMINE THE CAPACITY OF BINS, CRIBS, ETC., IN BUSHELS

Compute the number of cubic feet and multiply by 0.8 or  $\frac{4}{5}$ .

If corn on the ear, deduct  $\frac{1}{3}$  from the result.

## MEASURING HAY IN STACKS

### 1. Oblong or Rectangular Stacks:

Multiply the overthrow (the distance from the ground on one side over the top of the stack to the ground on the other side) by the length, by the width (all in feet); multiply by 3; divide by 10; and then divide by 500 to 600, depending upon the length of time the hay has been in the stack.

### 2. Round Stacks:

Volume in cubic feet:

$(0.04 \times O.) - (0.012 \times C) \times \text{Circumference squared.}$

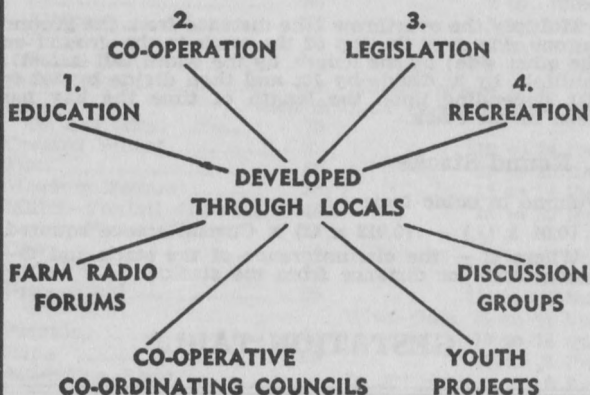
Where C — the circumference of the stack and O—  
overthrow or distance from the stack.

## GESTATION TABLE

DATE OF SERVICE	DATE ANIMAL DUE TO GIVE BIRTH			
	MARE	COW	EWE	SOW
Jan. 1	Nov. 30	Oct. 13	May 27	Apr. 24
Feb. 1	Dec. 31	Nov. 13	June 28	May 25
Mar. 1	Jan. 29	Dec. 11	July 26	June 23
Apr. 1	Mar. 1	Jan. 11	Aug. 26	July 24
May 1	Mar. 31	Feb. 10	Sept. 25	Aug. 23
June 1	May 1	Mar. 13	Oct. 26	Sept. 23
July 1	May 31	Apr. 12	Nov. 25	Oct. 23
Aug. 1	July 1	May 13	Dec. 26	Nov. 23
Sept. 1	Aug. 1	June 13	Jan. 26	Dec. 24
Oct. 1	Aug. 31	July 13	Feb. 25	Jan. 23
Nov. 1	Oct. 1	Aug. 13	Mar. 28	Feb. 23
Dec. 1	Oct. 31	Sept. 12	Apr. 27	Mar. 25

# M. F. A. C.

## THE FOUR-POINT PROGRAMME



*"Organized to promote community  
progress through co-operation."*

**The Manitoba Federation of Agriculture  
and Co-operation**

610 Royal Bank Building, Winnipeg

(Member of Canadian Federation of Agriculture  
and Co-operative Union of Canada)

# Youth Training

UNDER THE

## M.F.A.C.



### FOLK SCHOOLS

The spearhead of rural youth education includes a 10 day course on social, economic and agricultural topics.

### LEADERSHIP SCHOOLS

A 3 week course giving more detailed and advanced study than the Folk School. Cultural subjects and recreational training added. Young people 17-35 years of age may attend.



### SUMMER CAMPS

Organized for recreation and fellowship in a holiday atmosphere on the west shore of Clear Lake at M.F.A.C. camp, Crawford Park.



### ADDITIONAL PROJECT

#### PUBLIC SPEAKING COMPETITION

An annual province-wide competition to develop the ability of self-expression for community leadership.



### SHANAMACS

Planned for children from 9 to 14 years to develop responsibility and co-operative living.



The MANITOBA FEDERATION  
of AGRICULTURE and CO-OPERATION

610 ROYAL BANK BLDG. WINNIPEG

## RULES FOR ESTIMATING PAINT REQUIRED

It is impossible to give a rule that will apply in all cases, as the amount varies with the kind and thickness of the paint; the kind, age and condition of the wood or other materials to which it is applied. For high grade, pure color, pure linseed oil paints the following general rules apply:

- (a) For dressed lumber (2 coats)  
1 gallon paint will cover 400 square feet.
- (b) For weathered lumber (2 coats)  
1 gallon paint will cover 300 square feet.
- (c) For flat walls, plaster (2 coats)  
1 gallon paint will cover 450 square feet.
- (d) For new shingles (1 coat)  
1 gallon stain will cover 130 square feet.
- (e) For old shingles (1 coat)  
1 gallon stain will cover 100 square feet.

NOTE—To square a number multiply by itself once.  
To cube a number multiply by itself twice.

## SHINGLES

The following table gives the number of shingles required for 100 square feet:

	Shingles per 100 sq. feet
Exposed 4" to the weather need.....	900
Exposed 4½" to the weather need.....	800
Exposed 5" to the weather need.....	720
Exposed 5½" to the weather need.....	650
Exposed 6" to the weather need.....	600

To the above add 5% for waste and 10% if hip roofs or dormer windows. One bundle contains 250 shingles.

## CISTERN CAPACITY

A cistern five feet in diameter will hold five and two-thirds barrels for every foot in depth.

A cistern eight feet in diameter will hold nearly twelve barrels for every foot in depth.

A cistern ten feet in diameter will hold eighteen and three-eighths barrels for every foot in depth.

# WEIGHTS AND MEASURES



## AVOIRDUPOIS

27.34 grains = 1 dram	16 ounces = 1 pound
16 drams = 1 ounce	2000 pounds = 1 ton
2240 pounds = 1 long ton	

## DRY MEASURE

3 teaspsns. = 1 tablespn.	4 quarts = 1 gallon
16 tablespns. = 1 cup	2 gallons = 1 peck
2 cups = 1 pint	4 pecks = 1 bushel
2 pints = 1 quart	8 bushels = 1 quarter

## LIQUID MEASURE

6 tablespoons = 1 gill	2 pints = 1 quart
2 gills = 1 cup	4 quarts = 1 gallon
2 cups = 1 pint	1 pint = 20 fluid oz.
1 gallon of water weighs 10 lbs.	

## LONG MEASURE

12 inches = 1 foot	5280 feet = 1 mile
3 feet = 1 yard	1760 yards = 1 mile
5½ yards = 1 rod	320 rods = 1 mile
1 link = 7.92 inches	1 furlong = 40 rods or 220 yards
	1 knot = 1.1516 miles

## SQUARE MEASURE

144 sq. ins. = 1 sq. foot	160 sq. rods = 1 acre
9 sq. feet = 1 sq. yd.	43560 sq. feet = 1 acre
30¼ sq. yds. = 1 sq. rod	640 acres = 1 sq. mile
1 hectare =	2.470 acres

## VOLUME MEASURE

1728 cu. inches = 1 cu. ft.	144 cu. ins. = 1 board ft.
27 cu. feet = 1 cu. yard	128 cu. feet = 1 cord
277 cu. inches = 1 gallon	69.25 cu. ins. = 1 quart
1 cubic foot =	6.238 gallons.

**Better Farm Living...**



*The Land  
for Thine Inheritance*

International Federation  
of Agricultural Producers

**... through Study and Planning**

**SOILS  
and  
HEALTH**



**For pamphlets on Agriculture, Co-  
operation, Education and Health,  
see your**

**Local Pool Agent  
or write  
Manitoba Pool Elevators, Winnipeg**



# 1952—CALENDAR—1952

## JANUARY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## FEBRUARY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	

## MARCH

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

## APRIL

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

## MAY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## JUNE

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## JULY

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

## AUGUST

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## SEPTEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## OCTOBER

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

## NOVEMBER

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

## DECEMBER

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

# 1953—CALENDAR—1953

## JANUARY

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

## FEBRUARY

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

## MARCH

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

## APRIL

S	M	T	W	T	F	S
		1	2	3	4	
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

## MAY

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## JUNE

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

NAME .....

ADDRESS .....

PHONE No.....

CAR

LICENSE No.....

TRUCK

LICENSE No.....

# MANITOBA POOL ELEVATORS

## OPERATING

- 255 Country Elevators with a total capacity of 9,560,000 bushels.

- Permanent and temporary annexes with a capacity of 6,000,000 bushels.

- Five terminals (three owned) at the Lakehead, Port Arthur, Ontario, with a capacity of 15,750,000 bushels.

- A modern seed plant at St. Boniface and an office building in Winnipeg.